



STIC Search Report

EIC 3600

STIC Database Tracking Number: 102845

TO: Thomas Price
Location: cpk 3D38
Art Unit : 3643
Wednesday, September 03, 2003

Case Serial Number: 10070401

From: Sylvia Keys
Location: EIC 3600
PK5-Suite 804
Phone: 305-5782

sylvia.keys@uspto.gov

Search Notes

Dear Thomas,

Please read through the results.

If you have any questions, please do not hesitate to contact me.

Sylvia

File 344:Chinese Patents Abs Aug 1985-2003/Mar
(c) 2003 European Patent Office
File 347:JAPIO Oct 1976-2003/Apr(Updated 030804)
(c) 2003 JPO & JAPIO
File 350:Derwent WPIX 1963-2003/UD,UM &UP=200355
(c) 2003 Thomson Derwent
File 348:EUROPEAN PATENTS 1978-2003/Aug W04
(c) 2003 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20030828,UT=20030821
(c) 2003 WIPO/Univentio
?ds

Set	Items	Description
S1	6	AU='RUDA F':AU='RUDA G'
S2	3	S1 AND GRAPHIC?

2/3,K/1 (Item 1 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014096379 **Image available**
WPI Acc No: 2001-580593/200165
XRPX Acc No: N01-432367

Graphical user interface for computer controlled dairy farm system, has
computer based graphical and schematic representation of system,
associated with physical property of represented portion of system
Patent Assignee: DELAVAL HOLDING AB (ALFA)

Inventor: RUDA F

Number of Countries: 095 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200117336	A1	20010315	WO 2000SE1674	A	20000831	200165 B
AU 200070472	A	20010410	AU 200070472	A	20000831	200165
SE 9903112	A	20010304	SE 993112	A	19990903	200165
EP 1207745	A1	20020529	EP 2000959089	A	20000831	200243
			WO 2000SE1674	A	20000831	

Priority Applications (No Type Date): SE 993112 A 19990903

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200117336 A1 E 20 A01J-005/007

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200070472 A A01J-005/007 Based on patent WO 200117336

SE 9903112 A A01J-005/007

EP 1207745 A1 E A01J-005/007 Based on patent WO 200117336

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

Graphical user interface for computer controlled dairy farm system, has
computer based graphical and schematic representation of system,
associated with physical property of represented portion of system
Inventor: RUDA F

Abstract (Basic):

... Computer based graphical and schematic representation of dairy
farm system has objects. Each object represents portion of system...

... includes cow, fence, gate and various other apparatus. An
INDEPENDENT CLAIM is also included for graphical user interface
providing method for monitoring or controlling a computer controlled
dairy farm...

...Reliable operation of computer controlled dairy farm system is achieved
by graphical and schematic representation of system using object
representing portion of the systems...

...The figure shows the graphical user interface of computer controlled
dairy farm system...

Title Terms: GRAPHICAL ;

2/3,K/2 (Item 1 from file: 348)
DIALOG(R) File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

01277110

GRAPHICAL USER INTERFACE AND METHOD RELATED THERETO
GRAPHISCHE BENUTZERSCHNITTSTELLE UND DAZUGEHORIGE METHODE
INTERFACE UTILISATEUR GRAPHIQUE ET PROCEDE ASSOCIE

PATENT ASSIGNEE:

DeLaval Holding AB, (3035600), P.O. Box 39, 147 21 Tumba, (SE),
(Applicant designated States: all)

INVENTOR:

RUDA, Fredrik, Odlingssvagen 18, S-147 50 Tumba, (SE)

LEGAL REPRESENTATIVE:

Estreen, Lars et al (89521), Kransell & Wennborg AB P.O. Box 27834, 115
93 Stockholm, (SE)

PATENT (CC, No, Kind, Date): EP 1207745 A1 020529 (Basic)

WO 200117336 010315

APPLICATION (CC, No, Date): EP 2000959089 000831; WO 2000SE1674 000831

PRIORITY (CC, No, Date): SE 993112 990903

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI;
LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: A01J-005/007

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

GRAPHICAL USER INTERFACE AND METHOD RELATED THERETO

INVENTOR:

RUDA, Fredrik ...

2/3,K/3 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2003 WIPO/Univentio. All rts. reserv.

00784206 **Image available**

GRAPHICAL USER INTERFACE AND METHOD RELATED THERETO
INTERFACE UTILISATEUR GRAPHIQUE ET PROCEDE ASSOCIE

Patent Applicant/Assignee:

DELAVAL HOLDING AB, Box 39, S-147 21 Tumba, SE, SE (Residence), SE
(Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

RUDA Fredrik, Odlingssvagen 18, S-147 50 Tumba, SE, SE (Residence), SE
(Nationality), (Designated only for: US)

Legal Representative:

FRITZON Rolf (et al) (agent), Kransell & Wennborg AB, Box 27834, S-115 93
Stockholm, SE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200117336 A1 20010315 (WO 0117336)

Application: WO 2000SE1674 20000831 (PCT/WO SE0001674)

Priority Application: SE 993112 19990903

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG

SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4048

GRAPHICAL USER INTERFACE AND METHOD RELATED THERETO

Patent Applicant/Inventor:

RUDA Fredrik ...

Fulltext Availability:

Detailed Description

File 5: Biosis Previews(R) 1969-2003/Aug W4
 (c) 2003 BIOSIS
 File 6: NTIS 1964-2003/Aug W5
 (c) 2003 NTIS, Intl Cpyrght All Rights Res
 File 10: AGRICOLA 70-2003/Aug
 (c) format only 2003 The Dialog Corporation
 File 34: SciSearch(R) Cited Ref Sci 1990-2003/Aug W4
 (c) 2003 Inst for Sci Info
 File 50: CAB Abstracts 1972-2003/Jul
 (c) 2003 CAB International
 File 65: Inside Conferences 1993-2003/Aug W5
 (c) 2003 BLDSC all rts. reserv.
 File 94: JICST-EPlus 1985-2003/Aug W5
 (c) 2003 Japan Science and Tech Corp(JST)
 File 98: General Sci Abs/Full-Text 1984-2003/Jul
 (c) 2003 The HW Wilson Co.
 File 99: Wilson Appl. Sci & Tech Abs 1983-2003/Jul
 (c) 2003 The HW Wilson Co.
 File 143: Biol. & Agric. Index 1983-2003/Jul
 (c) 2003 The HW Wilson Co
 File 144: Pascal 1973-2003/Aug W4
 (c) 2003 INIST/CNRS
 File 203: AGRIS 1974-2003/Aug
 Dist by NAL, Intl Copr. All rights reserved
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 (c) 2003 PJB Publications, Ltd.
 File 266: FEDRIP 2003/Jul
 Comp & dist by NTIS, Intl Copyright All Rights Res
 File 306: Pesticide Fact File 1998/Jun
 (c) 1998 BCPC
 File 357: Derwent Biotech Res. 1982-2003/Aug W5
 (c) 2003 Thomson Derwent & ISI
 File 434: SciSearch(R) Cited Ref Sci 1974-1989/Dec
 (c) 1998 Inst for Sci Info
 ?ds

Set	Items	Description
S1	44245	(DAIRY OR AGRICULTUR?) (1W) (FARM OR FARMS OR FARMING? OR FARMLAND? OR PHARM? ? OR PHARMING?)
S2	136	S1 (5N) (AUTOMATE? OR COMPUTERI? OR DIGITI? OR DIGITAL? OR ELECTRONIC)
S3	28	S2 (5N) (MONITOR? OR CONTROL? OR DETERMIN? OR ASSESS? OR DIAGNOS? OR ANALYZ? OR ANALYS? OR EVALUAT? OR MEASUR?)
S4	2	S2 (5N) (GRAPHIC? ? OR GUI OR GRAPHICAL() USER() INTERFACE? ? - OR ICON OR ICONS OR DISPLAY? ? OR ANIMATION? OR IMAGE? OR GIF OR JPEG OR PICTURE? ? OR SYMBOL? ? OR SCHEMATIC? OR ROBOT?)
S5	0	S2 (5N) (PHYSICAL() PROPERT? OR LOCATION? OR SIZE? ? OR SHAPE? ? OR COLOR? ? OR DIRECTION? OR MOVEMENT? OR FREQUENC?)
S6	28	S3 NOT PY>2001
S7	19	RD (unique items)
S8	2	RD S4 (unique items)
S9	124	S2 NOT DERMAT?
S10	120	S9 NOT PY>2001
S11	96	RD (unique items)
S12	79	S11 NOT (S7 OR S8)

7/3,K/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

11788516 BIOSIS NO.: 199900034625

A framework for the development of computerized management and control systems for use in dairy farming.

AUTHOR: Pietersma D; Lacroix R; Wade K M(a)
AUTHOR ADDRESS: (a)Dep. Animal Sci., McGill Macdonald Campus, 21,111
Lakeshore Road, Ste-Anne de Bellevue, PQ H9X 3**Canada
JOURNAL: Journal of Dairy Science 81 (11):p2962-2972 Nov., 1998
ISSN: 0022-0302
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: execution of dairy farming activities. A framework was developed, therefore, to support the creation of **computerized management and control systems in dairy farming**. Within this framework, a management and control system was defined as a network consisting of...

7/3,K/2 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

10611024 BIOSIS NO.: 199699232169

Case- control study of papillomatous digital dermatitis in southern California dairy farms .

AUTHOR: Rodriguez-Lainz Alfonso; Hird David W(a); Carpenter Tim E; Read Deryck H
AUTHOR ADDRESS: (a)Dep. Med. Epidemiol., Sch. Veterinary Med., Univ. California, Davis, CA 95616**USA
JOURNAL: Preventive Veterinary Medicine 28 (2):p117-131 1996
ISSN: 0167-5877
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

Case- control study of papillomatous digital dermatitis in southern California dairy farms .

7/3,K/3 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

07850491 BIOSIS NO.: 000041100112

THE CONTROL OF DIGITAL DERMATITIS IN LARGE DAIRY CATTLE FARMS

AUTHOR: ANON
JOURNAL: AV ALIMENT MEJORA ANIM 30 (6). 1990. 267. 1990
FULL JOURNAL NAME: Avances en Alimentacion y Mejora Animal
CODEN: AATAA
RECORD TYPE: Citation
LANGUAGE: SPANISH

THE CONTROL OF DIGITAL DERMATITIS IN LARGE DAIRY CATTLE FARMS

7/3,K/4 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

07144496 BIOSIS NO.: 000039081190

'THE ECONOMIC ASSESSMENT OF TECHNOLOGICAL AND MANAGEMENT CHANGES ON WELSH DAIRY FARMS BY COMPUTERIZED SPREADSHEET ANALYSIS
AUTHOR: WILLIS R W M; THOMAS T H; PHILLIPS C J C; BRIGHT G A; HOWARTH R W
AUTHOR ADDRESS: SCH. AGRIC. FOREST SCI., UNIV. COLL. NORTH WALES, BANGOR, GWYNEDD LL57 2UW.
JOURNAL: 100TH MEETING OF THE BRITISH SOCIETY OF ANIMAL PRODUCTION, SCARBOROUGH, ENGLAND, UK, MARCH 19-21, 1990. ANIM PROD 50 (3). 1990. 573-574. 1990
CODEN: ANIPA
DOCUMENT TYPE: Meeting
RECORD TYPE: Citation
LANGUAGE: ENGLISH

THE ECONOMIC ASSESSMENT OF TECHNOLOGICAL AND MANAGEMENT CHANGES ON WELSH DAIRY FARMS BY COMPUTERIZED SPREADSHEET ANALYSIS

7/3,K/5 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS
(c) 2003 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.

1862541 NTIS Accession Number: PB95-177960
Fuji Electric Journal, Vol. 67, No. 9, 1994
Fuji Electric Co. Ltd., Tokyo (Japan).
Corp. Source Codes: 082775000
c1994 57p
Languages: Japanese
Journal Announcement: GRAI9509
Text in Japanese with English abstracts. Color illustrations reproduced in black and white. Portions of this document are not fully legible. See also PB95-149795 and PB95-177978.
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NTIS Prices: PC E07/MF E07

Descriptors: Inspection; *Image processing; *Money; *Machinery; Computer vision; Automation; Technology **assessment**; **Measurement**; Classifying; **Agriculture**; **Farm crops**; **Electronic** packaging; Liquid crystal display systems; Industrial plants; Surveillance; Banking business; Retail trade

7/3,K/6 (Item 1 from file: 10)
DIALOG(R)File 10:AGRICOLA
(c) format only 2003 The Dialog Corporation. All rts. reserv.

2561227 86927877 Holding Library: AGL
Analysis of automated **grain feeding systems on dairy farms in New York State**
Kelleher, M.J. Milligan, R.A.
Ithaca, N.Y. : The Station.
Cornell agricultural economics staff paper - Dept. of Agricultural Economics, Cornell University Agricultural Experiment Station. June 1985. (85-14) 23 p.
DNAL CALL NO: HD1407.C6
Language: English

Analysis of automated **grain feeding systems on dairy farms in New York State**

7/3,K/7 (Item 1 from file: 50)
DIALOG(R)File 50:CAB Abstracts
(c) 2003 CAB International. All rts. reserv.

03285211 CAB Accession Number: 962212960

Case- control study of papillomatous digital dermatitis in southern California dairy farms .

Rodriguez Lainz, A.; Hird, D. W.; Carpenter, T. E.; Read, D. H.

Department of Medicine and Epidemiology, School of Veterinary Medicine, University of California, Davis, CA 95616, USA.

Preventive Veterinary Medicine vol. 28 (2): p.117-131

Publication Year: 1996

ISSN: 0167-5877 --

Language: English

Document Type: Journal article

Case- control study of papillomatous digital dermatitis in southern California dairy farms . --

7/3,K/8 (Item 2 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02981651 CAB Accession Number: 950401518

Knowledge-based methods for automated mastitis diagnosis on dairy farms .

Hogeveen, H.

Department of Herd Health and Reproduction, Utrecht University, Yalelaan 7, 3584 CL Utrecht, Netherlands.

198 pp.

Publication Year: 1994

Publisher: Utrecht University -- Netherlands

ISBN: 90-393-0845-4

Language: English Summary Language: dutch

Document Type: Thesis

Knowledge-based methods for automated mastitis diagnosis on dairy farms . --

7/3,K/9 (Item 3 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02915390 CAB Accession Number: 942402347

NIR spectroscopy: a new technology for automated control on dairy farm .

Tsenkova, R. N.; Yordanov, K. I.; Itoh, K.; Matsuda, J.; Himoto, J.; Natsuga, M.

Technical University, Rousse, Bulgaria.

Conference Title: XII World Congress on Agricultural Engineering: Volume 2. Proceedings of a conference held in Milan, Italy, August 29 - September 1 1994.

p.1120-1127

Publication Year: 1994

Publisher: CIGR, General Secretariat -- Merelbeke, Belgium

Language: English

Document Type: Conference paper

NIR spectroscopy: a new technology for automated control on dairy farm . --

7/3,K/10 (Item 4 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

*02837046 CAB Accession Number: 941403389

An economic analysis of dairy concentrate feeding systems under uncertain feed costs and milk prices.

Gempesaw, C. M., II; Bacon, J. R.; Elterich, J. G.

Department of Food and Resource Economics, Delaware Agricultural Experiment Station, College of Agricultural Sciences, University of Delaware, Newark, DE 19717, USA.

Journal of Production Agriculture vol. 5 (3): p.399-404

Publication Year: 1992

ISSN: 0890-8524 --

Language: English

Document Type: Journal article

--

The economic impact of **computerized** grain feeding on **dairy farm** financial performance is **evaluated**. Use of such systems has positive impacts on profitability of representative Mid-Atlantic, USA, dairy...

7/3,K/11 (Item 5 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

01834586 CAB Accession Number: 872292213

Continuous eco-pathological survey. 2. Computerized assessment of clinical disease on dairy farms : a system for revealing health problems (summary).

Original Title: L'enquete eco-pathologique continue: 2. Le bilan automatise de pathologie clinique en elevage laitier: un systeme d'objectivation des problemes sanitaires (resume).

Barnouin, J.; Bouvier, A.

Annales de Recherches Veterinaires vol. 17 (3): p.231-232

Publication Year: 1986 --

Language: French

Document Type: Journal article

Continuous eco-pathological survey. 2. Computerized assessment of clinical disease on dairy farms : a system for revealing health problems (summary). --

7/3,K/12 (Item 6 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

01795910 CAB Accession Number: 860414272

The electronic revolution on the dairy farm.

Smith, T. R.; Scott, N. R.

Dep. Anim. Sci., New York State College Agric. & Life Sci., Cornell Univ., Ithaca, NY, USA.

New York's Food and Life Sciences Quarterly vol. 16 (2): p.9-11

Publication Year: 1986 --

Language: English

Document Type: Journal article

--

Applications of microelectronics and microcomputers in **dairy farming** are discussed. Uses include **electronic** identification of cows, microprocessor- **controlled** , feeding systems, electronic measurement of milk yield, automatic valves to separate milk of animals producing...

7/3,K/13 (Item 7 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

01432419 CAB Accession Number: 842419995

Development and use of an automated management system for a large dairy herd.

Laycock, C. L.

ADAS, UK.

Conference Title: Proceedings of the 21st CIOSTA/CIGR(V) Congress (Ed. Agricultural Development and Advisory Service and Institute of Management Services).

p.75-79

Publication Year: 1982

Publisher: Ministry of Agriculture, Fisheries and Food -- London, UK

Language: English

Document Type: Conference paper

--

The development and use of a microprocessor controlled automated dairy farm management system are described. Automatic cow identification, in-parlour concentrate feeding and milk-yield recording...

7/3,K/14 (Item 8 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

00726337 CAB Accession Number: 790447428

The "Schoonoord" Research Institute for Animal Husbandry in 1977.

Original Title: Het Instituut voor Veeteeltkundig Onderzoek "Schoonoord" in 1977.

Netherlands, Instituut voor Veeteeltkundig Onderzoek "Schoonoord"
Driebergseweg 10 D, Zeist, Netherlands.

8lpp.

Publication Year: undated

Publisher: -- Zeist., Netherlands

Language: Dutch

Document Type: Miscellaneous

--

...concentrates in various forms in the milking parlour; optimization of operations in herringbone milking parlours; computerized monitoring systems for large dairy farms (for detecting sudden drops in milk yield of individual cows, etc.); sensor for measuring electrical...

7/3,K/15 (Item 1 from file: 65)

DIALOG(R)File 65:Inside Conferences

(c) 2003 BLDSC all rts. reserv. All rts. reserv.

00606909 INSIDE CONFERENCE ITEM ID: CN005898470

The economic assessment of technological and management changes on Welsh dairy farms by computerised spreadsheet analysis.

Willis, R. W. M.; Thomas, T. H.; Phillips, C. J. C.; Bright, G. A.

CONFERENCE: Winter meeting

WINTER MEETING- BRITISH SOCIETY OF ANIMAL PRODUCTION, 1990 P: 98

The Society, [1990]

LANGUAGE: English DOCUMENT TYPE: Conference Summaries and programme

CONFERENCE SPONSOR: British Society of Animal Production

CONFERENCE LOCATION: Scarborough

CONFERENCE DATE: Mar 1990 (199003) (199003)

NOTE:

The 100th meeting of the British Society of Animal Production

The economic assessment of technological and management changes on Welsh dairy farms by computerised spreadsheet analysis

7/3,K/16 (Item 1 from file: 98)
DIALOG(R)File 98:General Sci Abs/Full-Text
(c) 2003 The HW Wilson Co. All rts. reserv.

02530349 H.W. WILSON RECORD NUMBER: BGSA93030349
Evaluation of the effectiveness of the Vector fly trap and two prototype models against flying insects in dairy milk rooms in south Mississippi.
Goddard, Jerome
Journal of Environmental Health (J Environ Health) v. 55 (June 1993) p. 16-20
SPECIAL FEATURES: bibl il ISSN: 0022-0892
LANGUAGE: English
COUNTRY OF PUBLICATION: United States

DESCRIPTORS:
Traps and trapping; **Electronic** apparatus and instruments; Insect control ; **Dairy** farms

7/3,K/17 (Item 1 from file: 203)
DIALOG(R)File 203:AGRIS
Dist by NAL, Intl Copr. All rights reserved. All rts. reserv.

01969039 AGRIS No: 96-032972
Complex technological solutions for private dairy farms (Kompleksi tehnologikie risinajumi zemnieku piena lopu fermam)
Kelpis, E.; Kosa, J. (State Science and Technology Centre for Farm Mechanization, Riga (Latvia))
Journal: Lauksaimniecibas mehanizacija. Zinatnisko rakstu krajums, 1995, (no.1) p. 94-103
Language: Latvian Summary Language: English, Latvian

... dairy farming productivity. The annual economic efficiency of the projects is mentioned. Systems for the **computerized control** of **dairy farm** technological processes and information registration on the basis of microprocessors and computers have been elaborated.

7/3,K/18 (Item 2 from file: 203)
DIALOG(R)File 203:AGRIS
Dist by NAL, Intl Copr. All rights reserved. All rts. reserv.

00945216 AGRIS No: 936094
Adaptation and analysis of an automated system of the southern Chilean agricultural farms [accounting]] (Adaptacion y analisis de un sistema computarizado para predios agricolas del sur de Chile [contabilidad])
Sobarzo Medina, E.B.
Universidad Austral de Chile, Valdivia. Facultad de Ciencias Agrarias
Thesis Degree: Tesis (Ing Agr)
Publisher: , Valdivia (Chile), 1982, 313 p.
Language: Spanish Summary Language: English, Spanish

Adaptation and analysis of an automated system of the southern Chilean agricultural farms [accounting]]

7/3,K/19 (Item 3 from file: 203)
DIALOG(R)File 203:AGRIS
Dist by NAL, Intl Copr. All rights reserved. All rts. reserv.

00731240 AGRIS No: 604277
Mechanizing agriculture through computer processing. Automated milk control in dairy farms [milking, organization]] (Mecanisation de

'1'agriculture grace a l'informatique. Le controle laitier automatise dans les elevages [traite des vaches, organisation])

Montalescot, J.B. (Centre National d'Etudes et d'Experimentation de Machinisme Agricole, 92 - Antony (France). Section Traite Mecanique)

Journal: Genie Rural, Apr 1980, (no.4) p. 37-44

Language: French

Mechanizing agriculture through computer processing. Automated milk control in dairy farms [milking, organization]
?ds

Set	Items	Description
S1	44245	(DAIRY OR AGRICULTUR?) (1W) (FARM OR FARMS OR FARMING? OR FA-RMLAND? OR PHARM? ? OR PHARMING?)
S2	136	S1(5N) (AUTOMATE? OR COMPUTERI? OR DIGITI? OR DIGITAL? OR E-ELECTRONIC)
S3	28	S2(5N) (MONITOR? OR CONTROL? OR DETERMIN? OR ASSESS? OR DIAGNOS? OR ANALYZ? OR ANALYS? OR EVALUAT? OR MEASUR?)
S4	2	S2(5N) (GRAPHIC? ? OR GUI OR GRAPHICAL()USER()INTERFACE? ? - OR ICON OR ICONS OR DISPLAY? ? OR ANIMATION? OR IMAGE? OR GIF OR JPEG OR PICTURE? ? OR SYMBOL? ? OR SCHEMATIC? OR ROBOT?)
S5	0	S2(5N) (PHYSICAL()PROPERT? OR LOCATION? OR SIZE? ? OR SHAPE? ? OR COLOR? ? OR DIRECTION? OR MOVEMENT? OR FREQUENC?)
S6	28	S3 NOT PY>2000
S7	19	RD (unique items)

?t s7/5/all

7/5/1 (Item 1 from file: 5)

DIALOG(R)File 5: BIOSIS Previews(R)

(c) 2003 BIOSIS. All rts. reserv.

11788516 BIOSIS NO.: 199900034625

A framework for the development of computerized management and control systems for use in dairy farming.

AUTHOR: Pietersma D; Lacroix R; Wade K M(a)

AUTHOR ADDRESS: (a)Dep. Animal Sci., McGill Macdonald Campus, 21,111 Lakeshore Road, Ste-Anne de Bellevue, PQ H9X 3**Canada

JOURNAL: Journal of Dairy Science 81 (11):p2962-2972 Nov., 1998

ISSN: 0022-0302

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: Computerized information systems can potentially help the dairy producer to deal with the increased complexity of decision making and availability of information in dairy farming. These systems, however, should be fully integrated to ensure a coordinated execution of dairy farming activities. A framework was developed, therefore, to support the creation of **computerized management and control systems in dairy farming**. Within this framework, a management and control system was defined as a network consisting of the management and control activities and the information flows that are involved in dairy farming. The management and control activities consist of a cycle of decision making, implementation, and assessment. These activities were classified according to level (strategic, tactical, operational, or regulatory) and sphere (breeding, health, nutrition, environment, milk production, fixed assets, labor, or finance). These activities can be performed by human beings or automated systems that are located on or off the farm. A large amount of information exchange exists among these management and control activities, between the overall management and control system, and between the physical farm environment and external agents. The interdependence among decisions at the various levels and spheres necessitates computerized management and control systems that are integrated and that support the exchange of information. The developed framework should facilitate the creation of such systems and could also

act as a reference base for the analysis and improvement of existing dairy farm information systems.

DESCRIPTORS:

MAJOR CONCEPTS: Animal Husbandry (Agriculture); Computer Applications (Computational Biology)
BIOSYSTEMATIC NAMES: Bovidae--Artiodactyla, Mammalia, Vertebrata, Chordata, Animalia
ORGANISMS: cattle (Bovidae)
BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA): Animals; Artiodactyls; Chordates; Mammals; Nonhuman Mammals; Nonhuman Vertebrates; Vertebrates
MISCELLANEOUS TERMS: dairy farming--computerized control system, computerized management system
CONCEPT CODES:
26502 Animal Production-General; Methods
00530 General Biology-Information, Documentation, Retrieval and Computer Applications
04500 Mathematical Biology and Statistical Methods
BIOSYSTEMATIC CODES:
85715 Bovidae

7/5/2 (Item 2 from file: 5)

DIALOG(R) File 5: Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.

10611024 BIOSIS NO.: 199699232169

Case- control study of papillomatous digital dermatitis in southern California dairy farms .

AUTHOR: Rodriguez-Lainz Alfonso; Hird David W(a); Carpenter Tim E; Read Deryck H

AUTHOR ADDRESS: (a) Dep. Med. Epidemiol., Sch. Veterinary Med., Univ. California, Davis, CA 95616**USA

JOURNAL: Preventive Veterinary Medicine 28 (2):p117-131 1996

ISSN: 0167-5877

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: Data from 37 southern California dairy farms, with an annual average proportion of gt 5% of cows affected by papillomatous digital dermatitis (PDD) (cases), were compared with those from 20 dairy farms with ltoreq 5% cows affected (controls). Information on dairy environment, management and PDD occurrence was obtained from dairy managers, veterinarians and hooftrimmers, and by direct measurements at the farms. Odds of having a higher proportion (gt 5%) of cows affected were about 20 times greater in dairy farms with muddier corrals than in drier dairy farms. Buying replacement heifers was associated with a 4.7-fold increase in the odds of higher PDD prevalence, compared to dairy farms that did not buy heifers. In addition, a positive association was found between risk and number of heifers purchased. Spatial analysis (used to examine distribution patterns of the study dairy farms) showed no evidence of clustering among case or control dairy farms. There was no association between case dairy farms and proximity to the major local river.

DESCRIPTORS:

MAJOR CONCEPTS: Integumentary System (Chemical Coordination and Homeostasis); Mathematical Biology (Computational Biology); Pathology; Veterinary Medicine (Medical Sciences)
BIOSYSTEMATIC NAMES: Bovidae--Artiodactyla, Mammalia, Vertebrata, Chordata, Animalia
ORGANISMS: Bovidae (Bovidae)
BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA): animals; artiodactyls; chordates; mammals; nonhuman vertebrates; nonhuman mammals; vertebrates

MISCELLANEOUS TERMS: INTERDIGITAL PAPILLOMATOSIS; LAMENESS; RISK
FACTORS STATISTICS

CONCEPT CODES:

04500 Mathematical Biology and Statistical Methods
12508 Pathology, General and Miscellaneous-Inflammation and
Inflammatory Disease
18506 Integumentary System-Pathology
38004 Veterinary Science-Pathology

BIOSYSTEMATIC CODES:

85715 Bovidae

7/5/3 (Item 3 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2003 BIOSIS. All rts. reserv.

07850491 BIOSIS NO.: 000041100112

THE CONTROL OF DIGITAL DERMATITIS IN LARGE DAIRY CATTLE FARMS

AUTHOR: ANON

JOURNAL: AV ALIMENT MEJORA ANIM 30 (6). 1990. 267. 1990

FULL JOURNAL NAME: Avances en Alimentacion y Mejora Animal

CODEN: AATAA

RECORD TYPE: Citation

LANGUAGE: SPANISH

DESCRIPTORS: FORMALIN DERMATOLOGICAL-DRUG INFLAMMATION TREATMENT

CONCEPT CODES:

11318 Chordate Body Regions-Extremities (1970-)
12508 Pathology, General and Miscellaneous-Inflammation and
Inflammatory Disease
12512 Pathology, General and Miscellaneous-Therapy (1971-)
18506 Integumentary System-Pathology
22020 Pharmacology-Integumentary System, Dental and Oral Biology
26502 Animal Production-General; Methods
38004 Veterinary Science-Pathology
10060 Biochemical Studies-General

BIOSYSTEMATIC CODES:

85715 Bovidae

BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA):

Animals
Chordates
Vertebrates
Nonhuman Vertebrates
Mammals
Nonhuman Mammals
Artiodactyls

7/5/4 (Item 4 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

(c) 2003 BIOSIS. All rts. reserv.

07144496 BIOSIS NO.: 000039081190

**THE ECONOMIC ASSESSMENT OF TECHNOLOGICAL AND MANAGEMENT CHANGES ON WELSH
DAIRY FARMS BY COMPUTERIZED SPREADSHEET ANALYSIS**

AUTHOR: WILLIS R W M; THOMAS T H; PHILLIPS C J C; BRIGHT G A; HOWARTH R W
AUTHOR ADDRESS: SCH. AGRIC. FOREST SCI., UNIV. COLL. NORTH WALES, BANGOR,
GWYNEDD LL57 2UW.

JOURNAL: 100TH MEETING OF THE BRITISH SOCIETY OF ANIMAL PRODUCTION,
SCARBOROUGH, ENGLAND, UK, MARCH 19-21, 1990. ANIM PROD 50 (3). 1990.
573-574. 1990

CODEN: ANIPA

DOCUMENT TYPE: Meeting

RECORD TYPE: Citation

LANGUAGE: ENGLISH

DESCRIPTORS: ABSTRACT DAIRY INDUSTRY COST ANALYSIS FERTILIZER MILK YIELD

SUPPLEMENTARY LIGHTING

CONCEPT CODES:

00530 General Biology-Information, Documentation, Retrieval and
Computer Applications
10604 External Effects-Light and Darkness
13202 Nutrition-General Studies, Nutritional Status and Methods
13518 Food Technology-Dairy Products
16504 Reproductive System-Physiology and Biochemistry
26502 Animal Production-General; Methods
26504 Animal Production-Feeds and Feeding
00520 General Biology-Symposia, Transactions and Proceedings of
Conferences, Congresses, Review Annuals
07200 Circadian Rhythms and Other Periodic Cycles
38002 Veterinary Science-General; Methods

7/5/5 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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1862541 NTIS Accession Number: PB95-177960

Fuji Electric Journal, Vol. 67, No. 9, 1994

Fuji Electric Co. Ltd., Tokyo (Japan).

Corp. Source Codes: 082775000

c1994 57p

Languages: Japanese

Journal Announcement: GRAI9509

Text in Japanese with English abstracts. Color illustrations reproduced in black and white. Portions of this document are not fully legible. See also PB95-149795 and PB95-177978.

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NTIS Prices: PC E07/MF E07

Country of Publication: Japan

;Contents: Trends of Fuji Electric's Vision System Technology; Paper Cup Inside Inspection Device; Measurement and Sorting Systems for Agricultural Products; Electronic Parts Package Inspection System; Inspection System for Characters of Liquid Crystal Displays; Application of Video Surveillance Systems to Plants; Trends of Fuji Electric's Money Validation Technologies; Teller Machines; Full-Automatic Pinball Lending System; Money Changers; Recycle Type Bill Validator, BILMEC; Coin Dispenser for the Retail Trade.

Descriptors: Inspection; *Image processing; *Money; *Machinery; Computer vision; Automation; Technology **assessment**; **Measurement**; Classifying; **Agriculture**; **Farm crops**; **Electronic** packaging; Liquid crystal display systems; Industrial plants; Surveillance; Banking business; Retail trade

Identifiers: *Foreign technology; Paper cups; Pachinko parlors; NTISTFMRI

Section Headings: 41G (Manufacturing Technology--Quality Control and Reliability); 94B (Industrial and Mechanical Engineering--Quality Control and Reliability); 96F (Business and Economics--Banking and Finance); 49GE (Electrotechnology--General)

7/5/6 (Item 1 from file: 10)

DIALOG(R)File 10:AGRICOLA

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2561227 86927877 Holding Library: AGL

Analysis of automated grain feeding systems on dairy farms in New York State

Kelleher, M.J. Milligan, R.A.

Ithaca, N.Y. : The Station.

Cornell agricultural economics staff paper - Dept. of Agricultural Economics, Cornell University Agricultural Experiment Station. June 1985.

(85-14) 23 p.

DNAL CALL NO: HD1407.C6

Language: English

Includes 15 references.

Subfile: AGE (AG ECON USA); EXP STN (STATE EXPER. STN);

Document Type: Article

DESCRIPTORS: feed dispensers; dairy farming; performance;
profitability; microcomputers;

Geographic Location: new york

Section Headings: E200 FARM ORGANIZATION AND MANAGEMENT; N200 FARM
EQUIPMENT; L100 ANIMAL PRODUCTION

7/5/7 (Item 1 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

03285211 CAB Accession Number: 962212960

Case- control study of papillomatous digital dermatitis in southern California dairy farms.

Rodriguez Lainz, A.; Hird, D. W.; Carpenter, T. E.; Read, D. H.
Department of Medicine and Epidemiology, School of Veterinary Medicine,
University of California, Davis, CA 95616, USA.

Preventive Veterinary Medicine vol. 28 (2): p.117-131

Publication Year: 1996

ISSN: 0167-5877 --

Language: English

Document Type: Journal article

Data from 37 Southern California dairy farms, with an annual average proportion of >5% of cows affected by papillomatous digital dermatitis (PDD) (cases), were compared with those from 20 dairy farms with less than or equal to 5% cows affected (controls). Information on dairy environment, management and PDD occurrence was obtained from dairy managers, veterinarians and hoof-trimmers, and by direct measurements at the farms. Probability of having a higher proportion (>5%) of cows affected were about 20 times greater in dairy farms with muddier corrals than in drier dairy farms. Buying replacement heifers was associated with a 4.7-fold increase in the probability of higher PDD prevalence, compared with dairy farms that did not buy heifers. There was also a positive association between risk and number of heifers purchased. Spatial analysis (used to examine distribution patterns of the dairy farms studied) showed no evidence of clustering among case or control dairy farms. There was no association between case dairy farms and proximity to the Santa Ana River, the major local river. 30 ref.

DESCRIPTORS: dairy farms; predisposition; dairy cattle; dermatitis;
epidemiological surveys; disease control; control methods; prevention;
papilloma; foot diseases; risk factors; lameness; diseases

IDENTIFIERS: papillomatous digital dermatitis

ORGANISM DESCRIPTORS: cattle

GEOGRAPHIC NAMES: USA; California

BROADER TERMS: Bos; Bovidae; ruminants; Artiodactyla; mammals;
vertebrates; Chordata; animals; OECD Countries; Developed Countries;
North America; America; Pacific States of USA; Western States of USA;
USA

CABICODES: Animal Disorders (Not caused by Organisms) (LL860)

7/5/8 (Item 2 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02981651 CAB Accession Number: 950401518

Knowledge-based methods for automated mastitis diagnosis on dairy farms.

Hoojveen, H.

Department of Herd Health and Reproduction, Utrecht University, Yalelaan 7, 3584 CL Utrecht, Netherlands.

198 pp.

Publication Year: 1994

Publisher: Utrecht University -- Netherlands

ISBN: 90-393-0845-4

Language: English Summary Language: dutch

Document Type: Thesis

The objectives of the research described in this thesis were; (1) to explore the possibilities of knowledge representation systems (production rules and causal models) developed in the field of AI for automated diagnosis of dairy cattle diseases; and (2) to build knowledge-based systems (KBS) for mastitis diagnosis at the cow level as well as the herd level. The publication contains 9 papers on subjects including: development of KBS for use on dairy farms; KBS for diagnosis of herd mastitis problems; conditional causal modelling; and mastitis pathogen diagnosis. From the results of this research it was concluded that it is possible to automatically diagnose health disorders on dairy farms both at the herd level and at the cow level. many ref.

DESCRIPTORS: cows; bovine mastitis; bacterial diseases; computers; automation; health; microorganisms; mastitis; diagnosis; dairy farms; farm management; machine milking; models; computer software; expert systems; detection; dairy cattle; computer techniques; cattle diseases

ORGANISM DESCRIPTORS: cattle

BROADER TERMS: female animals; animals; females; mammals; vertebrates; Chordata; cattle; Bos; Bovidae; ruminants; Artiodactyla; ungulates; milk yielding animals; food animals

CABICODES: Parasites, Vectors, Pathogens & Biogenic Diseases of Animals (LL820); Animal Health & Hygiene (General) (LL800); Animal Treatment & Diagnosis (Non Drug) (LL880); Computer & Electronic Systems (NN050); Animal Husbandry (Dairy) (LL110); Milking & Dairy Equipment (NN490); Mathematics & Statistics (ZZ100); Farm & Horticultural Structures (NN300)

7/5/9 (Item 3 from file: 50)

DIALOG(R) File 50: CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02915390 CAB Accession Number: 942402347

NIR spectroscopy: a new technology for automated control on dairy farm .

Tsenkova, R. N.; Yordanov, K. I.; Itoh, K.; Matsuda, J.; Himoto, J.; Natsuga, M.

Technical University, Rousse, Bulgaria.

Conference Title: XII World Congress on Agricultural Engineering: Volume 2. Proceedings of a conference held in Milan, Italy, August 29 - September 1 1994.

p.1120-1127

Publication Year: 1994

Publisher: CIGR, General Secretariat -- Merelbeke, Belgium

Language: English

Document Type: Conference paper

A study was carried out into the use of near infrared spectroscopy (NIRS) for automatic control on dairy farms. The results indicated the feasibility of the NIRS range (680-1235 nm) for mastitis diagnosis and non-homogenized cow milk composition analysis. Qualitative and quantitative analyses of raw spectral data and derived spectra from non-homogenized milk were carried out and the results showed that the NIRS method has high sensitivity and repeatability. 9 ref.

DESCRIPTORS: cows; spectroscopy; milk composition; analysis; mastitis; detection; infrared spectroscopy

IDENTIFIERS: World congress on agricultural engineering
BROADER TERMS: female animals; females; animals; mammals; vertebrates;
Chordata
CABICODES: Milking & Dairy Equipment (NN490); Food Composition & Quality
(QQ500); Milk & Dairy Produce (QQ010); Animal Treatment & Diagnosis
(Non Drug) (LL880); Animal Husbandry (Dairy) (LL110); Other Equipment
(NN900)

7/5/10 (Item 4 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02837046 CAB Accession Number: 941403389

An economic analysis of dairy concentrate feeding systems under uncertain feed costs and milk prices.

Gempesaw, C. M., II; Bacon, J. R.; Elterich, J. G.

Department of Food and Resource Economics; Delaware Agricultural Experiment Station, College of Agricultural Sciences, University of Delaware, Newark, DE 19717, USA.

Journal of Production Agriculture vol. 5 (3): p.399-404

Publication Year: 1992

ISSN: 0890-8524 --

Language: English

Document Type: Journal article

The economic impact of **computerized** grain feeding on **dairy farm** financial performance is **evaluated**. Use of such systems has positive impacts on profitability of representative Mid-Atlantic, USA, dairy farms. In particular, use of new technology is important in improving farm financial performance during bad economic conditions. A dynamic, whole farm, capital budgeting simulation approach is used in the economic analysis. 20 ref.

DESCRIPTORS: dairy farms; computers; profitability; costs; models; feeding; systems; concentrates; economics; cows; dairy farming; economic impact

ORGANISM DESCRIPTORS: cattle

GEOGRAPHIC NAMES: USA; Middle Atlantic States of USA

BROADER TERMS: female animals; animals; Bos; Bovidae; ruminants;

Artiodactyla; ungulates; mammals; vertebrates; Chordata; North America; America; Northeastern States of USA; USA

CABICODES: Feed Products (Non-human) (RR000); Economics (General) (EE100); Animal Husbandry (Dairy) (LL110); Farming Systems & Management (EE200); Information & Library Sciences (CC300); Animal Nutrition (Production Responses) (LL520)

7/5/11 (Item 5 from file: 50)

DIALOG(R)File 50:CAB Abstracts

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01834586 CAB Accession Number: 872292213

Continuous eco-pathological survey. 2. Computerized assessment of clinical disease on dairy farms : a system for revealing health problems (summary).

Original Title: L'enquete eco-pathologique continue: 2. Le bilan automatise de pathologie clinique en elevage laitier: un systeme d'objectivation des problemes sanitaires (resume).

Barnouin, J.; Bouvier, A.

Annales de Recherches Veterinaires vol. 17 (3): p.231-232

Publication Year: 1986

Full paper in Bulletin Technique Centre de Recherches Zootechniques et Veterinaires de Theix (1982) No. 49, 69-73 --

Language: French

Document Type: Journal article

DESCRIPTORS: Computers; Data processing; Epidemiological surveys; cattle diseases
ORGANISM DESCRIPTORS: cattle
BROADER TERMS: Bos; Bovidae; ruminants; Artiodactyla; ungulates; mammals; vertebrates; Chordata; animals
CABICODES: Animal Disorders (Not caused by Organisms) (LL860); Animal Health & Hygiene (General) (LL800)

7/5/12 (Item 6 from file: 50)
DIALOG(R)File 50:CAB Abstracts
(c) 2003 CAB International. All rts. reserv.

01795910 CAB Accession Number: 860414272

The electronic revolution on the dairy farm.

Smith, T. R.; Scott, N. R.

Dep. Anim. Sci., New York State College Agric. & Life Sci., Cornell Univ., Ithaca, NY, USA.

New York's Food and Life Sciences Quarterly vol. 16 (2): p.9-11

Publication Year: 1986 --

Language: English

Document Type: Journal article

Applications of microelectronics and microcomputers in **dairy farming** are discussed. Uses include **electronic** identification of cows, microprocessor- **controlled** feeding systems, electronic measurement of milk yield, automatic valves to separate milk of animals producing unsalable milk, oestrus detection, and mastitis detection. Development of an integrated system to analyse on-farm data and give access to off-farm data, and use of robotics and artificial intelligence are suggested as future changes.

DESCRIPTORS: Cows; Dairy farming; electronics; utilization; reviews;
Dairy farms; applications

GEOGRAPHIC NAMES: USA

BROADER TERMS: female animals; animals; North America; America

CABICODES: Animal Husbandry (Dairy) (LL110); Milking & Dairy Equipment (NN490); Farm & Horticultural Structures (NN300); Computer & Electronic Systems (NN050)

7/5/13 (Item 7 from file: 50)
DIALOG(R)File 50:CAB Abstracts
(c) 2003 CAB International. All rts. reserv.

01432419 CAB Accession Number: 842419995

Development and use of an automated management system for a large dairy herd.

Laycock, C. L.

ADAS, UK.

Conference Title: Proceedings of the 21st CIOSTA/CIGR(V) Congress (Ed. Agricultural Development and Advisory Service and Institute of Management Services).

p.75-79

Publication Year: 1982

Publisher: Ministry of Agriculture, Fisheries and Food -- London, UK

Language: English

Document Type: Conference paper

The development and use of a microprocessor **controlled automated dairy farm** management system are described. Automatic cow identification, in-parlour concentrate feeding and milk-yield recording have operated satisfactorily, but the same level of performance has not been reached with automatic post-milking cow weighing. 3 ref.

DESCRIPTORS: Dairy farming; automation; microprocessors; feeding;

identification; Cows; management
IDENTIFIERS: 21st CIOSTA/CIGR(V) Congress; weighing
ORGANISM DESCRIPTORS: Cattle
BROADER TERMS: female animals; animals; Bos; Bovidae; ruminants;
Artiodactyla; ungulates; mammals; vertebrates; Chordata
CABICODES: Farm & Horticultural Structures (NN300); Animal Husbandry
(Dairy) (LL110); Milking & Dairy Equipment (NN490); Computer &
Electronic Systems (NN050); Animal Feeding & Watering Equipment (NN480)

7/5/14 (Item 8 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

00726337 CAB Accession Number: 790447428

The "Schoonoord" Research Institute for Animal Husbandry in 1977.

Original Title: Het Instituut voor Veeteeltkundig Onderzoek
"Schoonoord" in 1977.

Netherlands, Instituut voor Veeteeltkundig Onderzoek "Schoonoord"

Driebergseweg 10 D, Zeist, Netherlands.

81pp.

Publication Year: undated

Publisher: -- Zeist., Netherlands

Language: Dutch

Document Type: Miscellaneous

Research work reported includes: automation of milking, concentrate feeding and milk recording; effect of passage through a pre-treatment cubicle on cows' milk yield and cleanness of udders; equipment for automatic teat disinfection after milking; feeding of concentrates in various forms in the milking parlour; optimization of operations in herringbone milking parlours; **computerized monitoring** systems for large **dairy farms** (for detecting sudden drops in milk yield of individual cows, etc.); sensor for measuring electrical conductivity of milk during milking (for mastitis detection); effect of vacuum conditions in milking machine pipelines on udder health; relationship between farm factors (type of milking machine, cows' breed, etc.) and cell counts of milk determined at dairy factories; use of Duovac milking units in tie-up cowsheds with pipeline milking; use of non-return valves in the short milk tube; problems of cubicle loose-housing for dairy cows; milk, fat and protein yields, fodder intake and meat production performance of dual-purpose breeds (Holstein-Friesian, Meuse-Rhine-Yssel, Dutch Black Pied) bred in different directions; single-trait selection for milk yield compared with combined selection for milk yield and carcass quality; milk and meat production of purebred Dutch Black Pied (DBP) vs. North American Holstein-Friesian X DBP crossbreds; and elimination of systematic effects from milk recording data for farm management and breeding purposes. Staff publications are listed (See DSA 38, 1931-1932 for earlier reports.).

DESCRIPTORS: dairy research; dairy farming; automation; washing; milk yield; disinfection; concentrates; feeds; monitoring; mastitis; detection; electricity; conductivity; milk; milking machines; vacuum; LEUKOCYTE COUNT; breeding; milking; COW HOUSING; cubicles; milk fat yield; breeds; milk proteins; yields; selection; carcass quality; origin; milk recording; management; research; Friesian

IDENTIFIERS: Schoonoord; res. rep; udder; teat; form; computerization; level; fluctuation; loose-housing; dual-purpose; production performance; milk vs. beef production; data; "Schoonoord" Research Institute for Animal Husbandry

ORGANISM DESCRIPTORS: cattle

GEOGRAPHIC NAMES: Netherlands

BROADER TERMS: vertebrates; Chordata; animals; Bos; Bovidae; ruminants; Artiodactyla; ungulates; mammals; Western Europe; Europe

CABICODES: Research (AA500); Animal Husbandry (Dairy) (LL110); Meat Produce (QQ030); Animal Husbandry (General) (LL100)

7/5/15 (Item 1 from file: 65)
DIALOG(R)File 65:Inside Conferences
(c) 2003 BLDSC all rts. reserv. All rts. reserv.

00606909 INSIDE CONFERENCE ITEM ID: CN005898470

The economic assessment of technological and management changes on Welsh dairy farms by computerised spreadsheet analysis

Willis, R. W. M.; Thomas, T. H.; Phillips, C. J. C.; Bright, G. A.

CONFERENCE: Winter meeting

WINTER MEETING- BRITISH SOCIETY OF ANIMAL PRODUCTION, 1990 P: 98

The Society, [1990]

LANGUAGE: English DOCUMENT TYPE: Conference Summaries and programme

CONFERENCE SPONSOR: British Society of Animal Production

CONFERENCE LOCATION: Scarborough

CONFERENCE DATE: Mar 1990 (199003) (199003)

BRITISH LIBRARY ITEM LOCATION: 9319.421200

NOTE:

The 100th meeting of the British Society of Animal Production

DESCRIPTORS: animal production; BSAP

7/5/16 (Item 1 from file: 98)
DIALOG(R)File 98:General Sci Abs/Full-Text
(c) 2003 The HW Wilson Co. All rts. reserv.

02530349 H.W. WILSON RECORD NUMBER: BGSA93030349

Evaluation of the effectiveness of the Vector fly trap and two prototype models against flying insects in dairy milk rooms in south Mississippi.

Goddard, Jerome

Journal of Environmental Health (J Environ Health) v. 55 (June 1993) p. 16-20

SPECIAL FEATURES: bibl il ISSN: 0022-0892

LANGUAGE: English

COUNTRY OF PUBLICATION: United States

RECORD TYPE: Abstract RECORD STATUS: Corrected or revised record

ABSTRACT: The feasibility and efficacy of "stunning" type UV fly traps were evaluated in 16 dairy milk rooms in south Mississippi for 12 weeks during the summer of 1992. The Vector fly trap (S.C. Johnson and Son, Inc., Racine, WI) and two prototype models were tested (also products of S.C. Johnson and Son, Inc.). Weekly counts and identification of insects collected in the traps were made by the author, and weekly live fly counts in the milk rooms were made by health department inspectors. Traps caught a wide array of flying insects -- house flies, flesh flies, blow flies, gnats, small moths, beetles, love bugs and a few cockroaches. Milk rooms having operating fly traps had significantly less house flies than did control milk rooms. The Vector trap (also marketed as Prism and Hygenius fly traps) collected more flying insects per week than did either of the prototypes, and fewer living flies were seen each week in milk rooms with operating Vector traps. Reprinted by permission of the publisher. .

DESCRIPTORS:

Traps and trapping; **Electronic** apparatus and instruments; Insect

control ; Dairy farms

Product evaluation

7/5/17 (Item 1 from file: 203)
DIALOG(R)File 203:AGRIS
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01969039 AGRIS No: 96-032972

Complex technological solutions for private dairy farms (Kompleksi

..tehnologikie risinajumi zemnieku piena lopu fermam)

Kelpis, E.; Kosa, J. (State Science and Technology Centre for Farm Mechanization, Riga (Latvia))

Journal: Lauksaimniecibas mehanizacija. Zinatnisko rakstu krajums, 1995, (no.1) p. 94-103

Notes: 1 table; 3 ill.

Language: Latvian Summary Language: English, Latvian

Place of Publication: Latvia

Availability: Latvia Center

Document Type: Journal Article, Summary, Nonconventional Literature

Journal Announcement: 2203 Record input by Latvia

Abstract in English

The article deals with technologies, equipment, farm management systems and eight dairy farm construction projects which are aimed at providing for appropriate dairy farming productivity. The annual economic efficiency of the projects is mentioned. Systems for the **computerized control of dairy farm** technological processes and information registration on the basis of microprocessors and computers have been elaborated.

Descriptors in English: *DAIRY EQUIPMENT; *PRIVATE FARMS; *DAIRY COWS; * TECHNOLOGY; *COMPUTERS; *LATVIA; ARTIODACTYLA; BOVIDAE; BOVINAE; CATTLE; COWS; DAIRY CATTLE; DOMESTIC ANIMALS; EASTERN EUROPE; ENTERPRISES; EQUIPMENT; EUROPE; FARMS; LIVESTOCK; MAMMALS; PRIVATE FIRMS; RUMINANTS; USEFUL ANIMALS;

Section Headings: N20 (MACHINERY AND BUILDINGS -- Farm equipment) ; L01 (ANIMAL PRODUCTION -- Animal husbandry)

7/5/18 (Item 2 from file: 203)

DIALOG(R)File 203:AGRIS

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00945216 AGRIS No: 936094

Adaptation and analysis of an automated system of the southern Chilean agricultural farms [accounting]] (Adaptacion y analisis de un sistema computarizado para predios agricolas del sur de Chile [contabilidad])

Sobarzo Medina, E.B.

Universidad Austral de Chile, Valdivia. Facultad de Ciencias Agrarias

Thesis Degree: Tesis (Ing Agr)

Publisher: , Valdivia (Chile), 1982, 313 p.

Notes: Numerical data

Language: Spanish Summary Language: English, Spanish

Place of Publication: Chile

Availability: Biblioteca, Univ. Austral de Chile, Valdivia (Chile)

Document Type: Monograph, Numerical Data, Dissertation, Summary,

Nonconventional Literature

Journal Announcement: 0911 Record input by CIDIA

Identifiers in Spanish

Identifiers: SISTEMA COMPUTARIZADO; PREDIOS AGRICOLAS; CHILE; CONTABILIDAD

Descriptors: ; Chile

Section Headings: E10 (ECONOMICS, DEVELOPMENT, AND RURAL SOCIOLOGY -- Economics) ; U10 (AUXILIARY DISCIPLINES -- Mathematics and statistics)

7/5/19 (Item 3 from file: 203)

DIALOG(R)File 203:AGRIS

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00731240 AGRIS No: 604277

Mechanizing agriculture through computer processing. Automated milk control in dairy farms [milking, organization]] (Mecanisation de l'agriculture grace a l'informatique. Le controle laitier automatise dans les elevages [traite des vaches, organisation])

Montalescot, J.B. (Centre National d'Etudes et d'Experimentation de

. Machinisme Agricole, 92 - Antony (France). Section Traite Mecanique)
Journal: Genie Rural, Apr 1980, (no.4) p. 37-44
ISSN: 0395-8663
Language: French
Place of Publication: France
Document Type: Journal Article,
Journal Announcement: 0703 Record input by CEC (Commission of
European Communities)
Descriptors: Dairy cattle; France
Section Headings: E15 (ECONOMICS, DEVELOPMENT, AND RURAL SOCIOLOGY --
Farm organization and management) ; L00 (ANIMAL PRODUCTION)

8/5/1 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS
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1862541 NTIS Accession Number: PB95-177960

Fuji Electric Journal, Vol. 67, No. 9, 1994

Fuji Electric Co. Ltd., Tokyo (Japan).

Corp. Source Codes: 082775000

c1994 57p

Languages: Japanese

Journal Announcement: GRAI9509

Text in Japanese with English abstracts. Color illustrations reproduced in black and white. Portions of this document are not fully legible. See also PB95-149795 and PB95-177978.

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NTIS Prices: PC E07/MF E07

Country of Publication: Japan

;Contents: Trends of Fuji Electric's Vision System Technology; Paper Cup Inside Inspection Device; Measurement and Sorting Systems for Agricultural Products; Electronic Parts Package Inspection System; Inspection System for Characters of Liquid Crystal Displays; Application of Video Surveillance Systems to Plants; Trends of Fuji Electric's Money Validation Technologies; Teller Machines; Full-Automatic Pinball Lending System; Money Changers; Recycle Type Bill Validator, BILMEC; Coin Dispenser for the Retail Trade.

Descriptors: Inspection; *Image processing; *Money; *Machinery; Computer vision; Automation; Technology assessment; Measurement; Classifying; **Agriculture** ; **Farm crops** ; **Electronic** packaging; Liquid crystal display systems; Industrial plants; Surveillance; Banking business; Retail trade

Identifiers: *Foreign technology; Paper cups; Pachinko parlors; NTISTFMRI

Section Headings: 41G (Manufacturing Technology--Quality Control and Reliability); 94B (Industrial and Mechanical Engineering--Quality Control and Reliability); 96F (Business and Economics--Banking and Finance); 49GE (Electrotechnology--General)

8/5/2 (Item 1 from file: 50)
DIALOG(R)File 50:CAB Abstracts
(c) 2003 CAB International. All rts. reserv.

02677466 CAB Accession Number: 932456869

Robotic milking system (RMS): design and performance.

Linde, R. van der; Lubberink, J.

Gascoigne Melotte B.V., Gildenweg 2, 8304 BC Emmeloord, Netherlands.

Conference Title: Prospects for automatic milking. Proceedings of the international symposium on prospects for automatic milking, Wageningen, Netherlands, 23-25 November 1992.

p.55-62

Publication Year: 1992

EEAP Publication No. 65

Editors: Ipema, A.H.; Lippus, A.C.; Metz, J.H.M.

Publisher: Pudoc Scientific Publishers -- Wageningen, Netherlands

Language: English

Document Type: Conference paper

The development of the Gascoigne Melotte automatic milking system is described from the 1980s to the present day. The GM 2000 system involves milking technology, **computerized** feeding, milk yield registration and **dairy farm** management. The **robotic** milking station is a single unit suitable for loose housing for small or large farms. Details of udder preparation, cluster attachment, teat attachment, milk transport and sensing devices are presented.

12/5/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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11101765 BIOSIS NO.: 199799722910

Possible consequences for French dairy farming of the ISO standards for electronic data interchange.

BOOK TITLE: EAAP Publication; Performance recording of animals: State of the art, 1996

AUTHOR: Boulesteix I; Balvay B; Champy R; Rehben E

BOOK AUTHOR/EDITOR: Renaud J; van Gelder J: Eds

AUTHOR ADDRESS: Livestock Inst., 149 rue de Bercy, 75012 Paris**France

JOURNAL: EAAP Publication (87):p155-158 1996

BOOK PUBLISHER: Wageningen Pers, P. O. Box 42, 6700 AA, Wageningen, Netherlands

CONFERENCE/MEETING: 30th Biennial Session of the International Committee for Animal Recording Veldhoven, Netherlands June 23-28, 1996

ISSN: 0071-2477 ISBN: 90-74134-42-4

RECORD TYPE: Citation

LANGUAGE: English

DESCRIPTORS:

MAJOR CONCEPTS: Animal Husbandry (Agriculture); Information Studies

BIOSYSTEMATIC NAMES: Animalia-Unspecified--Animalia

ORGANISMS: animal (Animalia - Unspecified); Animalia (Animalia - Unspecified)

BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA): animals

GEOGRAPHICAL NAME: Europe (Palearctic region); France (Europe, Palearctic region)

MISCELLANEOUS TERMS: Book Chapter; Meeting Paper; ANIMAL HUSBANDRY; DAIRY FARMING; ELECTRONIC DATA INTERCHANGE; INFORMATION STUDIES; ISO STANDARDS

CONCEPT CODES:

00530 General Biology-Information, Documentation, Retrieval and Computer Applications

26502 Animal Production-General; Methods

00520 General Biology-Symposia, Transactions and Proceedings of Conferences, Congresses, Review Annuals

BIOSYSTEMATIC CODES:

33000 Animalia-Unspecified

12/5/2 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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10476365 BIOSIS NO.: 199699097510

Improvement in milk production and udder health following correction of stray voltage on computer feeders.

AUTHOR: Wilson David J(a); Southwick Lee H(a); Kaeser Donald R

AUTHOR ADDRESS: (a)Cornell Univ., Coll. Vet. Med., Quality Milk Promotion Serv., 22 Thornwood Drive, Ithaca, NY 148**USA

JOURNAL: Agri-Practice 17 (5-6):p24-29 1996

ISSN: 0745-452X

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: Diagnosis and correction of stray voltage on farms is important, as was shown here on a 130-cow Holstein dairy farm which had installed computerized grain feeders in 1986. This may be especially true when cows can choose to avoid the source of shocks, and this choice affects production. Major production and disease losses in dairy cattle were strongly associated with stray voltage, and improvement followed its elimination on the farm in this study.

DESCRIPTORS:

MAJOR CONCEPTS: Animal Husbandry (Agriculture); Physiology; Reproductive System (Reproduction); Veterinary Medicine (Medical Sciences)

INDUSTRY: dairy industry

MISCELLANEOUS TERMS: AGRICULTURE; ANIMAL HUSBANDRY; BIOBUSINESS; COMPUTER FEEDER STRAY VOLTAGE; ELECTRICAL SHOCKS; MILK PRODUCTION/UDDER HEALTH; REPRODUCTIVE SYSTEM; VETERINARY MEDICINE

CONCEPT CODES:

10610 External Effects-Electric, Magnetic and Gravitational Phenomena
16502 Reproductive System-Anatomy
16504 Reproductive System-Physiology and Biochemistry
16506 Reproductive System-Pathology
26502 Animal Production-General; Methods
26504 Animal Production-Feeds and Feeding
38002 Veterinary Science-General; Methods
38004 Veterinary Science-Pathology

12/5/3 (Item 3 from file: 5)

DIALOG(R) File 5: Biosis Previews(R)

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10460298 BIOSIS NO.: 199699081443

Design and implementation of a system for automatic milking and feeding.

AUTHOR: Devir S; Hogeveen H(a); Hogewerf P H; Ipema A H; Ketelaar-De Lauwere C C; Rossing W; Smits A C; Stefanowska J

AUTHOR ADDRESS: (a) DLO-Inst. Agric. Environ. Eng., P.O. Box 43, NL-6700 AA Wageningen**Netherlands

JOURNAL: Canadian Agricultural Engineering 38 (2):p107-113 1996

ISSN: 0045-432X

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: To investigate the feasibility of implementing a completely **automated** milking and feeding under typical **dairy farm** conditions, a Prototype fully integrate system was designed and installed at an experimental farm. The b had the following sections: a feeding area, a lying area, and an automatic milking system area. The automatic milking system included a milking stall with a robot for automated attachment of the milking cluster and two selection units. Concentrates can be fed in the milking stall as well as in the selection units. Cows enter the automatic milking system from the lying area through one of the two selection units and can be sent to the milking stall or to the feeding area. In the milking stall, cows are milked automatically by the milking robot. In the feeding area, an automated feeding system is available, in which the individual forage intake of cows can be controlled and measured. The process control can be divided into three groups: robot control, cow traffic control, and management control. The system offers much flexibility with regard to the milking frequency, cow traffic, and feed allocation. The system was used for 7 months with a one-way cow routing and an average of 79 planned milkings per day. Many data were collected automatically and could immediately be utilized for on-line decisions. Although many questions still have to be answered, the system proved to be flexible enough to allow automatic milking and feeding with much variation in milking frequency, feedstuff allocation, and cow traffic.

DESCRIPTORS:

MAJOR CONCEPTS: Animal Husbandry (Agriculture); Nutrition

BIOSYSTEMATIC NAMES: Bovidae--Artiodactyla, Mammalia, Vertebrata, Chordata, Animalia; Vertebrata-Unspecified--Vertebrata, Chordata, Animalia

ORGANISMS: cow (Bovidae); vertebrate (Vertebrata - Unspecified)

BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA): animals; artiodactyls;

chordates; mammals; nonhuman mammals; nonhuman vertebrates; vertebrates
INDUSTRY: cattle industry
MISCELLANEOUS TERMS: AGRICULTURE/ANIMAL HUSBANDRY; AUTOMATIC FEEDING
SYSTEM; AUTOMATIC MILKING SYSTEM; BIOBUSINESS; COW TRAFFIC; FEEDSTUFF
ALLOCATION; METHODS TECHNIQUES AND EQUIPMENT; MILKING FREQUENCY;
MISCELLANEOUS METHOD
CONCEPT CODES:
13202 Nutrition-General Studies, Nutritional Status and Methods
26502 Animal Production-General; Methods
26504 Animal Production-Feeds and Feeding
BIOSYSTEMATIC CODES:
85715 Bovidae

12/5/4 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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09867863 BIOSIS NO.: 199598322781
Effectiveness of automated technology management system at dairy farms

AUTHOR: Trafimaw A F; Alyushyn A A; Tsimashenka V N; Browka A V
AUTHOR ADDRESS: Belaruss. Res. Inst. Anim. Husb., Zhodino**Belarus
JOURNAL: Vvestsi Akademii Ahrarnykh Navuk Byelarusi 0 (3):p65-69, 126 1994
DOCUMENT TYPE: Article
RECORD TYPE: Citation
LANGUAGE: Belorussian; Non-English
SUMMARY LANGUAGE: Russian; English
DESCRIPTORS:

MAJOR CONCEPTS: Animal Husbandry (Agriculture); Information Studies;
Models and Simulations (Computational Biology); Reproductive System
(Reproduction)
BIOSYSTEMATIC NAMES: Bovidae--Artiodactyla, Mammalia, Vertebrata,
Chordata, Animalia
ORGANISMS: cow (Bovidae)
BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA): animals; artiodactyls;
chordates; mammals; nonhuman mammals; nonhuman vertebrates; vertebrates
MISCELLANEOUS TERMS: MILK YIELD; PRODUCTIVITY
CONCEPT CODES:
00530 General Biology-Information, Documentation, Retrieval and
Computer Applications
10515 Biophysics-Biocybernetics (1972-)
16504 Reproductive System-Physiology and Biochemistry
26502 Animal Production-General; Methods
BIOSYSTEMATIC CODES:
85715 Bovidae

12/5/5 (Item 5 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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08297518 BIOSIS NO.: 000043052516
**SINTEL AN INTEGRATED AUTOMATED VETERINARY MANAGEMENT PROGRAM FOR DAIRY
FARMS**
AUTHOR: LEROY I; JACTEL B; ENNUYER M; LECERF F
AUTHOR ADDRESS: DEP. ANIM. PROD., NATL. VET. SCH., 94704 MAISONS-ALFORT,
FR.
JOURNAL: BOVINE PRACT 0 (26). 1991. 46-48. 1991
FULL JOURNAL NAME: Bovine Practitioner
CODEN: BOVPB
RECORD TYPE: Citation
LANGUAGE: ENGLISH
DESCRIPTORS: HUMAN DAIRY COW HERD HEALTH COMPUTER PROGRAM ECONOMIC GOAL
MONITORING COST-EFFECTIVENESS

. CONCEPT CODES:

00530 General Biology-Information, Documentation, Retrieval and
Computer Applications
26502 Animal Production-General; Methods
38002 Veterinary Science-General; Methods

BIOSYSTEMATIC CODES:

85715 Bovidae
86215 Hominidae

BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA):

Animals
Chordates
Vertebrates
Nonhuman Vertebrates
Mammals
Nonhuman Mammals
Artiodactyls
Primates
Humans

12/5/6 (Item 6 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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06488983 BIOSIS NO.: 000037060999

**THE IMPACT OF A COMPUTERIZED DAIRY INFORMATION SYSTEM ON LARGE DAIRY
FARMS IN MALAYSIA**

AUTHOR: PHARO H J; SOPIAN M J

AUTHOR ADDRESS: DEP. VET. SERV., KEMENTERIAN PERTANIAN, JALAN MAHAMERU,
50360 KUALA LUMPUR, MALAYSIA.

JOURNAL: FIFTH INTERNATIONAL SYMPOSIUM ON VETERINARY EPIDEMIOLOGY AND
ECONOMICS, COPENHAGEN, DENMARK, JULY 25-29, 1988. ACTA VET SCAND 0 (84).
1988. 197-199. 1988

CODEN: AVSPA

RECORD TYPE: Citation

LANGUAGE: ENGLISH

DESCRIPTORS: COW FOODS DAIRY INDUSTRY

CONCEPT CODES:

00530 General Biology-Information, Documentation, Retrieval and
Computer Applications
13518 Food Technology-Dairy Products
26502 Animal Production-General; Methods
26506 Animal Production-Breeds and Breeding
38002 Veterinary Science-General; Methods
00520 General Biology-Symposia, Transactions and Proceedings of
Conferences, Congresses, Review Annuals

BIOSYSTEMATIC CODES:

85715 Bovidae

BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA):

Animals
Chordates
Vertebrates
Nonhuman Vertebrates
Mammals
Nonhuman Mammals
Artiodactyls

12/5/7 (Item 7 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

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04669843 BIOSIS NO.: 000079082880

AN AUTOMATED MILKING DATA SYSTEM FOR DAIRY FARMS 1. HARDWARE

AUTHOR: MACKINNON J C; VISSERS J A; PETERS R D

AUTHOR ADDRESS: DEPARTMENT OF ENGINEERING, DALHOUSIE UNIVERSITY, HALIFAX,
NOVA SCOTIA B3H 3J5.
JOURNAL: CAN AGRIC ENG 26 (2). 1984 (RECD. 1985). 127-134. 1984
FULL JOURNAL NAME: Canadian Agricultural Engineering
CODEN: CAEOA
RECORD TYPE: Abstract
LANGUAGE: ENGLISH

ABSTRACT: An automated system for acquisition of milk yield data, control of feed-grain and communication of cow health information has been developed and tested over a period of 3 yr on a commercial dairy farm in central Nova Scotia [Canada]. Cow identity numbers are entered manually and displayed on a data monitor unit which is linked to milk meters with electronic output and feed dispensers for up to 8 stalls. Data are continuously exchanged between a farm office microcomputer and up to 4 monitors in the milking parlor. Voice messages from the computer are broadcast via a speaker adjacent to each monitor. Performance tests confirmed that in regular farm service the accuracy and reliability of system components was satisfactory.

DESCRIPTORS: COW HEALTH DAIRY FEED GRAIN MILK YIELD DATA MICROCOMPUTER
NOVA-SCOTIA CANADA

CONCEPT CODES:

00530 General Biology-Information, Documentation, Retrieval and
Computer Applications
01010 Methods, Materials and Apparatus, General-Field Apparatus
26502 Animal Production-General; Methods
26504 Animal Production-Feeds and Feeding
38002 Veterinary Science-General; Methods
13502 Food Technology-General; Methods

BIOSYSTEMATIC CODES:

85715 Bovidae

BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA):

Animals
Chordates
Vertebrates
Nonhuman Vertebrates
Mammals
Nonhuman Mammals
Artiodactyls

12/5/8 (Item 8 from file: 5)

DIALOG(R) File 5: Biosis Previews(R)

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04669842 BIOSIS NO.: 000079082879

AN AUTOMATED MILKING DATA SYSTEM FOR DAIRY FARMS 2. SOFTWARE

AUTHOR: MACKINNON J C; PETERS R D

AUTHOR ADDRESS: DEPARTMENT OF ENGINEERING, DALHOUSIE UNIVERSITY, HALIFAX,
NOVA SCOTIA B3H 3J5.

JOURNAL: CAN AGRIC ENG 26 (2). 1984 (RECD. 1985). 135-142. 1984

FULL JOURNAL NAME: Canadian Agricultural Engineering

CODEN: CAEOA

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

ABSTRACT: Software has been developed for a milking data system in which automatic processing of milk records and computation of feed grain amounts is integrated with the daily operation of milk yield measurement of feed control equipment. The current version of the software is for an Apple II + microcomputer and it is used regularly on a commercial dairy farm with a milking herd of 180 cows. Daily milking data for individual cows are automatically recorded and stored on disk at each milking. At the end of each month the cow records are analyzed and the daily feed

. amounts to be dispensed to each cow during the following month are computed and stored on disk. Calving information is entered on a weekly basis.

DESCRIPTORS: FEED GRAIN MICROCOMPUTER CALVING

CONCEPT CODES:

00530 General Biology-Information, Documentation, Retrieval and
Computer Applications
01010 Methods, Materials and Apparatus, General-Field Apparatus
13202 Nutrition-General Studies, Nutritional Status and Methods
16504 Reproductive System-Physiology and Biochemistry
26502 Animal Production-General; Methods
26504 Animal Production-Feeds and Feeding
26506 Animal Production-Breeds and Breeding

BIOSYSTEMATIC CODES:

85715 Bovidae

BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA):

Animals
Chordates
Vertebrates
Nonhuman Vertebrates
Mammals
Nonhuman Mammals
Artiodactyls

12/5/9 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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1554634 NTIS Accession Number: PB91-136127

EPIC-Erosion/Productivity Impact Calculator. 2. User Manual

(Technical research bulletin)

Sharpley, A. N. ; Williams, J. R.

Agricultural Research Service, Washington, DC.

Corp. Source Codes: 000614000

Report No.: USDA/TB-1768-PT-2

Sep 90 120p

Languages: English

Journal Announcement: GRAI9107

See also Part 1, PB91-136119.

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NTIS Prices: PC A06/MF A01

Country of Publication: United States

The publication describes how to use the EPIC model, which predicts the impact of erosion on soil productivity. The model simulates erosion, plant growth, and related processes; it also makes economic assessments, such as cost of erosion.

Descriptors: Mathematical models; *Soil erosion; * **Agricultural** economics; **Farm** crops; Yield; **Computerized** simulation; Agricultural machinery; Weather; Soil properties; Plant growth; Runoff; Hydrology; Sites ; United States

Identifiers: Users manual; Epic/Productivity Impact Calculator Model; EASE Computer program; NTISAGRS

Section Headings: 98B (Agriculture and Food--Agricultural Economics); 48E (Natural Resources and Earth Sciences--Soil Sciences)

12/5/10 (Item 2 from file: 6)

DIALOG(R)File 6:NTIS

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. 1433001 NTIS Accession Number: PB89-859771

Computer Applications in Agriculture. January 1985-April 1989 (Citations from the BioBusiness Database)

(Rept. for Jan 85-Apr 89)

National Technical Information Service, Springfield, VA.

Corp. Source Codes: 055665000

Apr 89 81p

Languages: English Document Type: Bibliography

Journal Announcement: GRAI8912

Prepared in cooperation with BioSciences Info Service, Philadelphia, PA.

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NTIS Prices: PC N01/MF N01

Country of Publication: United States

This bibliography contains citations concerning the use of computers and computer techniques in agriculture. Access to agricultural datafiles, pest control and occurrence datafiles, irrigation databases, biosimulation modeling for plant and animal husbandry, computerized process controls, video image analysis for plant identification and disease control, growth and yield management programs, weather related programs, predictive modeling for feed consumption, crop yields, fertilizer, and pesticide consumption, and computer programs for agricultural economic analysis are among the topics discussed. (Contains 131 citations fully indexed and including a title list.)

Descriptors: Bibliographies; *Agriculture; * **Computerized** simulation; Computer programs; Agricultural products; **Agricultural** economics; **Farm** crops; Animal husbandry; Agrobacterium; Computers; Data acquisition; Horticultural; Agricultural machinery

Identifiers: Published Searches: NTISPSBIO; NTISNERACD

Section Headings: 98GE* (Agriculture and Food--General); 88E (Library and Information Sciences--Reference Materials)

12/5/11 (Item 3 from file: 6)

DIALOG(R)File 6:NTIS

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1125909 NTIS Accession Number: ED-241 050

Information Services for Agriculture: The Role of Technology

Chartrand, R. L.

Library of Congress, Washington, DC. Congressional Research Service.

Corp. Source Codes: 000975031

Report No.: CRS-82-183-S

16 Nov 82 54p

Languages: English

Journal Announcement: GRAI8421

For related document, see ED-239 585

Available from ERIC Document Reproduction Service (Computer Microfilm International Corporation), Arlington, VA 22210.

NTIS Prices: Not available NTIS

Country of Publication: United States

This document discusses issues and developments related to the effects of new information technology on agriculture, beginning with an overview of the range of information-related issues, the evolving role of information technology, and the 'stakeholders' (the groups) involved in advanced information systems for rural America. An examination of information technology and its agricultural applications traces historical developments, delineates the types of information normally used by farmers and ranchers, and discusses the implications of the information revolution in agriculture. A brief chronology reviews selected events in United States history, including recent federal initiatives influencing the utilization of new information systems. Selected information systems demonstrating technological applications are described, including **agricultural**

databases, **farm** management software, **electronic** trading systems, videotex systems, and electronic messaging networks. A comprehensive listing of operational agricultural systems in the United States is followed by a map depicting the programs' centers of operations. Activities related to a series of 97th Congress oversight initiatives are summarized, and a 28-item reference list is included.

Descriptors: *Agriculture; *Technological advancement; Agricultural personnel; Agricultural trends; Computer programs; Computers; Databases; Demonstration programs; Farm management; Government role; Legislation; Videotex; Word processing

Identifiers: *Information Technology; Electronic Mail; Electronic Trading; Electronic Trading Systems; Interactive Systems; NTISHEWERY

Section Headings: 88B (Library and Information Sciences--Information Systems); 98GE (Agriculture and Food--General)

12/5/12 (Item 4 from file: 6)

DIALOG(R)File 6:NTIS

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0862036 NTIS Accession Number: PB81-113698/XAB

Production of Beef with Minimum Grain and Fossil Energy Inputs. Volume II. Discussion and Listing of the Model

(Final rept)

Walker, J. N. ; Loewer, O. J. ; Benock, G. ; Gay, N. ; Smith, E. M.
Kentucky Univ., Lexington.

Corp. Source Codes: 011061000

Sponsor: National Science Foundation, Washington, DC. Engineering and Applied Science.

Report No.: NSF/RA-770928

Oct 77 656p

Languages: English

Journal Announcement: GRAI8104

See also Volume 3, PB81-113706.

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A99/MF A01

Country of Publication: United States

Contract No.: NSF-AER75-18706

The computer simulation model BEEF (Beef Energy and Economic evaluator for Farms) is used to determine minimum grain and fossil inputs in beef production. This model utilizes the System Dynamics (SD) approach to modeling and the GASP IV simulation language. The model components in SD consist of four basic expressions: levels, rates, auxiliaries, and constants. Flow diagrams and the sequence of computations used in SD are shown. An overview of the BEEF model is presented to provide an overall concept of the subroutine flow for seventeen activities including land taxes, paying hourly labor, machinery depreciation, income and expenses, purchases, sales, management decisions, and net worth of farms. Output from the model is tabulated in 24 categories covering land attributes, support systems, machinery, money accounts, notes payable and receivable, fertilizers, chemicals, present worth, and income statements. Tracing monitor outputs of management decisions are included. Descriptions of subroutines, complete listings of the BEEF model, data entry, FORTRAN listings of subroutines with variables used, and examples of output production strategies are contained in appendices.

Descriptors: Beef; *Production; *Farm management; * **Computerized** simulation; **Agricultural** economics; **Farms**; Management planning; Labor estimates; Materials estimates; Income; Expenses; Purchasing; Economic analysis; Mathematical models; Fuel consumption; Feeding stuffs; Grains(Food); Animal husbandry; Cost analysis; Land use; Beef cattle

Identifiers: Input output analysis; Energy consumption; Livestock machinery; Financial management; Computer programs; Computer programming;

NTISNSFRA

Section Headings: 98B (Agriculture and Food--Agricultural Economics); 98E (Agriculture and Food--Animal Husbandry and Veterinary Medicine)

12/5/13 (Item 5 from file: 6)

DIALOG(R)File 6:NTIS

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0552057 NTIS Accession Number: PB-251 537/7/XAB

Land Use, Energy Flow, and Policy Making in Society

(Final rept)

Young, J. W. ; Mitchiner, J. L. ; Watt, K. E. F. ; Ayers, C. ; Brewer, J. W.

California Univ., Davis. Inst. of Ecology.

Sponsor: National Science Foundation, Washington, D.C. Research Applied to National Needs.

Report No.: NSF/RA/E-75/048

1 Sep 75 394p

Journal Announcement: GRAI7613

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Contract No.: NSF-GI-27

Many millions of dollars are spent every year on the research and development of large technical systems. Expenditures for public utilities, freeways, public transit, and irrigation systems are only a few examples. Somewhere, and at some time, each of these expenditures is justified on the basis of need. This need is calculated from interpretations of cause and effect relations and extrapolations of data. In this report, interpretations of cause and effect will be referred to as 'models,' and data extrapolations will be referred to as 'simulations,' although such terminology is unconventional. The purpose of this report is twofold: first, to provide a methodology for improving computer aids to modeling and to simulation; second, to apply the modeling methodology to the simulation of the use of land and energy in society. The computer aids are specifically designed for the evaluation of policy for land and energy use and not for decision making needed to implement policy. The abstract view of simulation and modeling presented here may initially be difficult to accept. It is, however, useful to conceive of 'understanding of need' as a hypothetical set of cause and effect relationships (models). It is similarly useful to view 'simulation' as a process of extrapolation. Copyright (c) Jeffrey W. Young 1975. Portions of this document are not fully legible.

Descriptors: Land use; *Energy models; *Regional planning; Mathematical models; Policies; Public works; Transportation management; Budgeting; Project planning; Energy; Computer programming; Evaluation; Data acquisition; Energy demand; Natural gas; California; **Agricultural** economics; **Farm** management; **Computerized** simulation; Forecasting

Identifiers: *Government policies; Extrapolation; Agricultural sector; NTISNSFRA

Section Headings: 92C (Behavior and Society--Social Concerns); 97G (Energy--Policies, Regulations, and Studies); 91H* (Urban and Regional Technology and Development--Regional administration and Planning); 98GE (Agriculture and Food--General)

12/5/14 (Item 1 from file: 10)

DIALOG(R)File 10:AGRICOLA

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3526052 20526466 Holding Library: AGL

A computerized drug use records system for dairy farms

Marsh, W.E. Reneau, J.K.; Sischo, W.
University of Minnesota, St. Paul, MN.
Arlington, Va. : The Council.
Annual meeting / 1996. 35th p. 142.
ISSN: 0271-9967 CODEN: AMNCDO
DNAL CALL NO: SF967.M3N32
Language: English
Meeting held on Feb. 18-21, 1996, Nashville, Tennessee.
Place of Publication: Virginia
Subfile: IND; OTHER US (NOT EXP STN, EXT, USDA; SINCE 12/76);
Document Type: Article
DESCRIPTORS: dairy farms; drug therapy; record keeping;
Section Headings: L810 VETERINARY PHARMACOLOGY AND IMMUNE THERAPEUTIC
AGENTS; X200 DOCUMENTATION

12/5/15 (Item 2 from file: 10)

DIALOG(R)File 10:AGRICOLA

(c) format only 2003 The Dialog Corporation. All rts. reserv.

2911306 89037525 Holding Library: AGL

**Variations in composition of stored forages on dairy farms using
computerized concentrate feeders**

Bertrand, J.A. Ely, L.O.; Amos, H.E.

Univ. of Georgia, Athens, GA

Lexington, Ky. : The Conference.

Proceedings of the Forage and Grassland Conference. 1987. p. 86-90.

ISSN: 0886-6899

DNAL CALL NO: SB193.F59

Language: English

Includes references.

Subfile: OTHER US (NOT EXP STN, EXT, USDA; SINCE 12/76);

Document Type: Article

DESCRIPTORS: forage; storage; chemical composition; feed dispensers;
concentrates; dairy farming;

Geographic Location: georgia

Section Headings: R100 FEED PROCESSING AND STORAGE

12/5/16 (Item 3 from file: 10)

DIALOG(R)File 10:AGRICOLA

(c) format only 2003 The Dialog Corporation. All rts. reserv.

2514544 86001586 Holding Library: AGL

Micro-electronics in dairy herd management

Rossing, W. Ipema, A.H.; Kerkhof, J.A.; Pluygers, H.G.; Gersen, G.J.;
Maatje, K.

St. Joseph, Mich. : American Society of Agricultural Engineers, c1984.

Agricultural electronics--1983 and beyond : proceedings of the National
Conference on Agricultural Electronics Applications, December 11-13, 1983,
Hyatt Regency Illinois Center, Chicago, Illinois. p. 606-613. ill.

DNAL CALL NO: TK7882.A37N38 1983

Language: English

Includes references.

Subfile: OTHER US (NOT EXP STN, EXT, USDA; SINCE 12/76);

Document Type: Article

DESCRIPTORS: cows; dairy herds; farm management; electronics;
electronic data processing;

Section Headings: E200 FARM ORGANIZATION AND MANAGEMENT

12/5/17 (Item 4 from file: 10)

DIALOG(R)File 10:AGRICOLA

(c) format only 2003 The Dialog Corporation. All rts. reserv.

. 1702696 80066382 Holding Library: AGL
New automated equipment in dairy farms .
Neue Automatisierungstechnik in Milchgewinnungsanlagen
Wendt, L. König, H.
Berlin, , VEB Verlag Technik.
Agrartechnik. v. 30 (2) , Feb 1980. p. 53-55. ill.
ISSN: 0323-3308
NAL: 58.8 D482
Language: GERMAN
Subfile: OTHER USDA;
Document Type: ARTICLE
Section Headings: N200 FARM EQUIPMENT

12/5/18 (Item 5 from file: 10)
DIALOG(R)File 10:AGRICOLA
(c) format only 2003 The Dialog Corporation. All rts. reserv.

1625137 80003241 Holding Library: AGL
Breakthrough in electronics for dairy farm management (Automated herd management)
Doorbraak van elektronica in de melkveehouderij
Rossing, W.
Wageningen, , Stichting Mechanisatie Centrum.
Landbouwmeechanisatie. v. 30 (7) , July 1979. p. 761-764. ill.
ISSN: 0023-7795
NAL: 58.8 L2352
Language: DUTCH ; ENGLISH ;
Document Type: ARTICLE
Section Headings: 5505 AGRICULTURAL ENGINEERING AND FARM STRUCTURES

12/5/19 (Item 6 from file: 10)
DIALOG(R)File 10:AGRICOLA
(c) format only 2003 The Dialog Corporation. All rts. reserv.

1083663 789696917
Symposium on Cow Identification Systems and their Applications ;;
Wageningen, the Netherlands April 8 and 9, 1976. --
Symposium on Cow Identification Systems and their Applica, Tions,
Wageningen, 1976.
1976.
97 p. in various pagings : ill.
LC: SF208.S95
Language: English
Includes bibliographical references.
Document Type: MONOGRAPH
Dairy Cattle -Marking. - **Electronic** Data Processing - **Dairy Farming .**
- **Dairy Farming** -Management.
Section Headings: 5510 Farm Equipment (1972-79)

12/5/20 (Item 7 from file: 10)
DIALOG(R)File 10:AGRICOLA
(c) format only 2003 The Dialog Corporation. All rts. reserv.

563489 749069803
A review of computerised management aids used in dairy farming .
[Cattle]
Smail, R
Farm Manage Spring 1974 2 (8): 423-434.
LC: S560.F37
Language: English
Document Type: ARTICLE
Section Headings: 1010 Agricultural Administration and management

(1972-79)

12/5/21 (Item 1 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

03737204 CAB Accession Number: 990403135

Continuous improvement of the planning of milk collection at Swiss Dairy Food.

Original Title: Laufende Optimierung der Milcherfassungsplanung bei Swiss Dairy Food.

Jorg, F.; Badertscher, U.; Grommes, E.; Auer, A.

Deutsche Milchwirtschaft vol. 50 (5): p.174-176

Publication Year: 1999

ISSN: 0012-0480 --

Language: German

Document Type: Journal article

The program GQM-TP to support optimal milk collection is presented. It is based on a **digital** road map, data from **dairy farms** and their milk production, vehicles, vehicle availability, and restrictions (due to road blocks, traffic rules, weight restrictions etc.).

DESCRIPTORS: milk; milk transport; computer software; vehicles; roads; maps; planning; dairy farms; milk production; traffic; milk collection; models; optimization

GEOGRAPHIC NAMES: Switzerland

BROADER TERMS: Western Europe; Europe; Developed Countries; EFTA; OECD Countries

CABICODES: Transport (EE730); Mathematics & Statistics (ZZ100); Milk & Dairy Produce (QQ010)

12/5/22 (Item 2 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

03483923 CAB Accession Number: 980400927

A survey of 1500 dairy farms investigating the milking practices of dairy farms with loose cow housing and establishing appropriate recommendations for milking parlour equipment.

Original Title: Untersuchung der Melkpraxis in Laufstallbetrieben (Umfrage in 1500 Betrieben) und Ableitung angepasster Empfehlungen zur Melkstandausrüstung.

Hellmuth, U.

KTBL-Arbeitspapier (No. 233): p.178-183

Publication Year: 1996

ISSN: 0930-0295 --

ISBN: 3-7843-1946-7

Language: German

Document Type: Journal article

2600 questionnaires were distributed to dairy farms in Germany (date not given). 1559 were answered and returned. Percentages of dairy farms using different types of milking parlour (herringbone, side-by-side, tandem and automated tandem) are given. Milking practices were analysed in terms of: number of cows milked/h per person; number of milkers; use of milking parlours with and without automation (automated termination of milking/automated cluster removal); stripping before and after milking; and replacement of teatcup liners. Numbers of cows milked/h were calculated both with and without pre- and post-milking procedures being taken into account. Rates of 5 cows milked/h per milking place per person were only attained in small milking parlours. In addition, these rates did not take pre- or post-milking operations into account. Efficiency of milking parlours was significantly dependent on the milker. With 1 milker, average rates were 38.4 and 63.2 cows milked/h per person for 2 x 4 and 2

x 8 milking parlours respectively. With 2 milkers, average rates were 20.4 and 34.2 cows milked/h per person for 2 x 4 and 2 x 8 milking parlours respectively. These figures did not take pre- or post-milking procedures into account. No significant differences were found between different types of milking parlour. The failure of automated termination of milking/automated cluster removal to raise efficiency is discussed. It is suggested that such automation can only be successful when stripping and dipping procedures do not take place. 47% of **dairy farms** with **automated** milking equipment strip at least some cows by hand. It was also found that milk quality of dairy farms was not significantly improved by the milking technology available. The failure of milkers on 20% of dairy farms to strip cows before milking is identified as having significant effects on bacterial and somatic cell counts. A recommendation that teatcup liners be changed after 1200-1500 h of use in order to minimize bacterial and somatic cell counts is made. Two tables are given. 1 ref.

DESCRIPTORS: milking parlours; automatic cluster removal; milking; milking machines; herringbone parlours; automation; machine milking; questionnaires; dairy farms; cows; milkers; strippings; teatcup liner; efficiency; teat dip; milk quality; bacterial count; somatic cell count; performance; surveys; farm surveys

IDENTIFIERS: side-by-side parlours; tandem parlours

ORGANISM DESCRIPTORS: cattle

GEOGRAPHIC NAMES: Germany

BROADER TERMS: Bos; Bovidae; ruminants; Artiodactyla; mammals; vertebrates; Chordata; animals; Western Europe; Europe; Developed Countries; European Union Countries; OECD Countries

CABICODES: Milking & Dairy Equipment (NN490); Labour & Employment (EE900); Investment, Finance & Credit (EE800); Farming Systems & Management (EE200); Animal Husbandry (Dairy) (LL110)

12/5/23 (Item 3 from file: 50)

DIALOG(R) File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

03483800 CAB Accession Number: 980400644

Reacting more quickly. LKV-Brandenburg sends data on milk quality and milk yield using data processing systems.

Original Title: Schneller reagieren. LKV-Brandenburg schickt Milchgute und -leistungsdaten per EDV auf den Weg.

Stahmann, F.

Tierzuchter vol. 48 (5): p.10-13

Publication Year: 1996

ISSN: 0040-7364 --

Language: German

Document Type: Journal article

Information technology used by the LKV-Brandenburg, Waldsiedersdorf, Germany (Brandenburg Regional Association for Milk Recording - BRAMR) is presented and discussed. According to BRAMR, 22% of Brandenburg dairy farms that take part in milk recording (MR) use herd management computer software. **Computerized** records held by **dairy farms** on individual cows exist for 39% of Brandenburg dairy cattle that take part in MR. 97% of cows in the regions take part in MR. Processing of MR data takes an average of 4.6 days. The following are described: bar-coding of milk samples; portable computers for MR; electronic transfer of data from farms to the central laboratory; electronic transfer of MR lists from the central laboratory back to the farms; interpretation of MR data with respect to feeding, somatic cell counts and culling of selected cows; different types of MR; data categories for individual cows; the economic importance of rapid and informed decision-making; and differences between MR organizations. The information technology requirements of 2 dairy farms, Tierzuchtgut Heinersdorf GbR and Flaming-Farm eG, are presented with reference to their economic needs.

DESCRIPTORS: information technology; regions; organizations; milk recording; dairy farms; management; farm management; computer software; dairy cattle; milk; feeding; slaughter; cows; somatic cell count; computers; microcomputers; computer analysis; data processing; information systems; data collection; information processing; monitoring; recording; milk recording results; milk quality; milk yield
ORGANISM DESCRIPTORS: cattle
GEOGRAPHIC NAMES: Germany; Brandenburg
BROADER TERMS: Bos; Bovidae; ruminants; Artiodactyla; mammals; vertebrates; Chordata; animals; Western Europe; Europe; Developed Countries; European Union Countries; OECD Countries; Germany
CABICODES: Farming Systems & Management (EE200); Computer & Electronic Systems (NN050); Milk & Dairy Produce (QQ010); Food Composition & Quality (QQ500); Animal Husbandry (Dairy) (LL110)

12/5/24 (Item 4 from file: 50)
DIALOG(R)File 50:CAB Abstracts
(c) 2003 CAB International. All rts. reserv.

03412026 CAB Accession Number: 970403533
A dairy farm information system and its main aspects.
Original Title: Piimafarmi infosüsteem ja selle alaosad.
Poldmaa, O.
Agraarteadus vol. 7 (3): p.258-269
Publication Year: 1996 --
Language: Estonian Summary Language: english; russian
Document Type: Journal article
The main areas covered by **computerised** information systems on **dairy farms** are examined and concluded to be animal feeding; monitoring of performance and health; milking; and herd management. An algorithm for a system for computerised distribution of feed concentrates is also presented. 16 ref.

DESCRIPTORS: information technology; data collection; dairy farms; information systems; computers; feeding; feed dispensers; computer software; models
GEOGRAPHIC NAMES: Estonia
BROADER TERMS: Baltic States; Northern Europe; Europe; Developed Countries
CABICODES: Animal Husbandry (Dairy) (LL110); Computer & Electronic Systems (NN050); Mathematics & Statistics (ZZ100)

12/5/25 (Item 5 from file: 50)
DIALOG(R)File 50:CAB Abstracts
(c) 2003 CAB International. All rts. reserv.

03100304 CAB Accession Number: 950108899
HPA LATTE-an integrated computerized system for dairy farm management.
Hoffmann, G.; Papajorgji, P.
Department of Agricultural Engineering, University of Florida, Florida, USA.
Computers in agriculture 1994: Proceedings of the 5th International Conference, Orlando, Florida, USA, 6-9 February, 1994.
Conference Title: Computers in agriculture 1994: Proceedings of the 5th International Conference, Orlando, Florida, USA, 6-9 February, 1994.
p.481-485
Publication Year: 1994
Editors: Watson, D. G.; Zazueta, F. S.; Harrison, T. V.
Publisher: American Society of Agricultural Engineers (ASAE) -- St Joseph, USA
ISBN: 0-929355-46-6

Language: English

Document Type: Conference paper

A dairy herd management system used at the University of Tirana, Albania, and on farms in Italy, is described. It is intended for use by farmers, and has modules for processing data on dairy performance, reproduction, health, bull management and nutrition.

DESCRIPTORS: dairy herds; management; computer software

ORGANISM DESCRIPTORS: cattle

GEOGRAPHIC NAMES: USA; Italy

BROADER TERMS: Bos; Bovidae; ruminants; Artiodactyla; ungulates; mammals; vertebrates; Chordata; animals; OECD Countries; Developed Countries; North America; America; European Union Countries; Mediterranean Region; Southern Europe; Europe

CABICODES: Animal Husbandry (Dairy) (LL110); Information & Library Sciences (CC300)

12/5/26 (Item 6 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02981317 CAB Accession Number: 950401183

Informatics and robotics on dairy farms.

Ferretti, D.; Fortunato, A.; Ippolito, M.; Rizzi, C.

PFR, c/o ITIA - CNR, Viale Lombardia, 20, I 20131 Milano, Italy.

Enabling technologies for land use and resource management. Proceedings 5th International Congress for Computer Technology in Agriculture 29 June to 5 July, 1994, Stoneleigh Park, Warwickshire, UK.

Conference Title: Enabling technologies for land use and resource management. Proceedings 5th International Congress for Computer Technology in Agriculture 29 June to 5 July, 1994, Stoneleigh Park, Warwickshire, UK. p.74-78

Publication Year: 1994

Publisher: Royal Agricultural Society of England, National Agricultural Centre -- Kenilworth, UK

ISBN: 0-7084-0546-0

Language: English

Document Type: Conference paper

This paper presents a prototype for the design and simulation of an **automated dairy farm**. Such a system allows the design and the evaluation of different technical solutions via graphic simulation before constructing and assembling the whole system. The prototype consists of 2 tools: PHIL (Polyhedral Hybrid modelling Library), and ROBSIM (ROBotic SIMulator). The former is a polyhedral solid modeller that allows the modelling of all elements involved in the process simulation (e.g., cow, milking robot). PHIL includes special features dedicated to robotics applications. ROBSIM allows the workcell assembling (e.g. the milking robot) and the planning of robot tasks, with the emphasis on the analysis of interactions among devices (e.g., robot arm) and objects (e.g., cow teats) present in the environment. Specific modules for proximity sensors simulation have been also developed: this may be useful, e.g. for the correct positioning of the gripper with respect to the cow's teats. To test the system, particular attention was devoted to the milking process. It was planned to extend the experimentation to the study of dairy farm layout. This research has been supported by the National Research Council of Italy, Special Project RAISA. 11 ref.

DESCRIPTORS: cows; machine milking; computer software; models; teats; milking machines; automation; robots; dairy farms; design; computer simulation

IDENTIFIERS: 5th International Congress for Computer Technology in Agriculture

BROADER TERMS: female animals; animals; females; mammals; vertebrates; Chordata

CABICODES: Animal Husbandry (Dairy) (LL110); Milking & Dairy Equipment (NN490); Techniques & Methodology (ZZ900); Computer & Electronic Systems (NN050); Farm & Horticultural Structures (NN300)

12/5/27 (Item 7 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02915267 CAB Accession Number: 942402208

Improving the organization of work and optimizing the work input by the help of electronic herd management aids.

Schick, M.

Labour Economy Section, Swiss Research Institute for Agricultural Economics and Engineering, Tanikon, Switzerland.

Conference Title: XII World Congress on Agricultural Engineering: Volume 2. Proceedings of a conference held in Milan, Italy, August 29 - September 1 1994.

p.1395-1401

Publication Year: 1994

Publisher: CIGR, General Secretariat -- Merelbeke, Belgium

Language: English

Document Type: Conference paper

In the first quarter of 1993, 50 Swiss **dairy farms** using **electronic** herd management aids were visited and asked about their experiences with the various systems. From the point of view of process technology and economics of labour, the results were promising. The electronic aids make herd management easier and simplify cooperation between different farms. Use of them may help to save working time and improve the organization of work. Besides these advantages, some disadvantages appeared as well: the investment required is comparatively high, depending on the standard of equipment. Thus the annual cost per animal is high, particularly when the stock is small. Furthermore, malfunctions of certain components are still rather frequent. 6 ref.

DESCRIPTORS: cows; herds; management; dairy cattle; electronics

IDENTIFIERS: World congress on agricultural engineering

ORGANISM DESCRIPTORS: cattle

BROADER TERMS: female animals; females; animals; mammals; vertebrates;

Chordata; milk yielding animals; cattle; Bos; Bovidae; ruminants;

Artiodactyla; ungulates; food animals

CABICODES: Computer & Electronic Systems (NN050); Animal Husbandry (Dairy) (LL110); Other Equipment (NN900); Farm & Horticultural Structures (NN300)

12/5/28 (Item 8 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02852063 CAB Accession Number: 942401329

Computerised management of a family dairy farm with tethered animals.

Kosa, Yu. Ya.

Mekhanizatsiya i Elektrifikatsiya Sel'skogo Khozyaistva (No. 7):

p.12-15

Publication Year: 1993 --

Language: Russian

Document Type: Journal article

A computerized system of management, designed for a small dairy with tethered cows, is described. The data include details concerning the animals (weight, feed rations, daily milk yield), total feed input, total milk yield, milk sales to various companies and a detailed financial analysis. A block diagram of the information input is shown and a 40 Mb computer is recommended to process the information.

DESCRIPTORS: Dairy farms; management; computer techniques
CABICODES: Computer & Electronic Systems (NN050); Animal Husbandry (Dairy) (LL110); Milking & Dairy Equipment (NN490); Farm Input Utilization (EE145); Farm & Horticultural Structures (NN300); Farming Systems & Management (EE200)

12/5/29 (Item 9 from file: 50)

DIALOG(R)File 50:CAB Abstracts

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02829586 CAB Accession Number: 942400757

Operation experiences of dairy cow plants supplied with computer production management system.

Erenyi, A.

University of Agricultural Sciences, Agricultural Engineering College, 5400 Mezotur, Hungary.

Hungarian Agricultural Engineering (No. 6): p.8,41

Publication Year: 1993 --

Language: English

Document Type: Journal article

Laboratory and in situ tests were carried out to investigate the advantages of using a **computerized dairy farm** management system. The system can be used for animal identification, measurement of milk production, body weight and temp. of each cow, and to supply fodder to the cows. The various elements of the system are outlined.

DESCRIPTORS: Farm management; dairy farms; computers; Milking parlours; automation

CABICODES: Farm & Horticultural Structures (NN300); Computer & Electronic Systems (NN050); Cleaning, Grading, Transport & Handling Equipment (Animal & Plant) (NN460)

12/5/30 (Item 10 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02702826 CAB Accession Number: 930459468

Introducing information technology into Dutch dairy farming.

Doeksen, J.

TAURUS Branch, Organization for Automation in Dairy Farming, Runderweg 6, 8219 PK Lelystad, Netherlands.

Bulletin of the International Dairy Federation (No. 279): p.15-20

Publication Year: 1993

ISSN: 0250-5118 --

Language: English

Document Type: Conference paper; Journal article

In the early 1970s ideas were developed to use information technology to support farm management. Since the middle of the 1970s more and more research has been initiated to process information on farm computers to support management by farmers. The computerized concentrate feeders were the first **electronic** information products for **dairy farms**. Presently, of 45 000 Dutch dairy farmers, approx. 12 000 use an electronic concentrate feeder and another 5000 use a personal computer (PC) to support their daily management of the farm. PCs are used for: management information systems; communication with Videotex data communication systems; book-keeping; and operating automatic feeders etc. The development of information technology and the introduction of standards for the Dutch dairy farm sector are discussed.

DESCRIPTORS: Cows; Dairy farms; farm management; computer software

IDENTIFIERS: IDF Annual Sessions

GEOGRAPHIC NAMES: Netherlands

BROADER TERMS: female animals; animals; Western Europe; Europe
CABICODES: Animal Husbandry (Dairy) (LL110); Information & Library
Sciences (CC300)

12/5/31 (Item 11 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02660352 CAB Accession Number: 931802708

Reducing small farm vulnerability in Bangladesh.

Magor, N.; Orr, A.

Bangladesh Rice Research Institute, PO Box No. 911, Dhaka, Bangladesh.

Journal of the Asian Farming Systems Association vol. 1 (2): p.273-285

Publication Year: 1991

8 tab., 1 fig. --

Language: English

Document Type: Journal article

By the year 2001, 82% of farms in Bangladesh will be less than 1 ha. The change in agrarian structure is primarily the result of rapid population growth and the practice of partible inheritance. Many small farmers sell land because they are hungry, or sick, or must meet social obligations. This paper aims to define the target group of vulnerable small farmers and identify technology that can raise their incomes from agriculture. The study was made for two sites in the rainfed lowland favourable rice environment. The target group of vulnerable farmers owned less than 0.6 ha of land, produced enough rice to feed their households for 3-11 months, and derived over 50% of their income from **agriculture**. **Computerized farm** plans were used to model the impact of interventions to raise incomes for the target group. Interventions included both researcher technology and innovative farmer practices. The results suggest that new technology, access to non-farm employment and a more diversified farming system can reduce vulnerability on small rice farms. 14 ref.

DESCRIPTORS: Rice; small farms; structural change; farm income;
agricultural development; diversification; economics

ORGANISM DESCRIPTORS: Oryza

GEOGRAPHIC NAMES: Bangladesh

BROADER TERMS: Gramineae; Cyperales; monocotyledons; angiosperms;
Spermatophyta; plants; South Asia; Asia

CABICODES: Farming Systems & Management (EE200); Agricultural Structure &
Tenure System (EE165); Income & Poverty (EE950); Economics (General)
(EE100)

12/5/32 (Item 12 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02652340 CAB Accession Number: 932456098

Increasing effectiveness of using automated milking installations on dairy farms.

Simarev, Yu. A.

Goryachkin Institute of Agricultural Production Engineers, Moscow, Russia.

Traktory i Sel'skokhozyaistvennye Mashiny (No. 12): p.25-28

Publication Year: 1991 --

Language: Russian

Document Type: Journal article

The effect of automation on milk production in dairy farms is discussed, and a range of automatic milking equipment is assessed. Technical parameters of the milking machines are given in tables, and the time required to milk one animal using a mechanized and an automated milking machine is compared. 2 ref.

DESCRIPTORS: Milking machines; automation; Cows; milk yield
BROADER TERMS: female animals; animals
CABICODES: Farm & Horticultural Structures (NN300); Milking & Dairy
Equipment (NN490); Animal Husbandry (Dairy) (LL110)

12/5/33 (Item 13 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02561997 CAB Accession Number: 920452940

Automation in dairy cattle farming.

Original Title: Automatisierung in der Milchviehhaltung.

Ipema, A. H.; Rossing, W.

Institute of Agricultural Engineering (IMAG), Wageningen, Netherlands.

Praktische Tierarzt vol. 70 (11): p.48-54

Publication Year: 1989

ISSN: 0032-681X --

Language: German Summary Language: english

Document Type: Journal article

The opportunities for automation in **dairy cattle farming**, including **electronic** and microelectronic applications, already represent the subject of many research programmes. With the cow identification system it is possible to determine the animal at the point where measures have to be taken: the individual milk capacity can be recorded, conc. feed can be dosed specifically to meet requirements, animals that are sick or in season can be identified with the aid of sensors and changes in milk quality can be recognized. Despite automation, the physical and mental effort required of the farmer are still high, especially where milking is concerned. Modern technology and existing possibilities open up the way for complete automation of the milking process. This will make it possible to milk the cows several times a day and thus achieve higher milk yields per cow. However, this in turn places certain requirements on the feeding of the animals. In cooperation with industry, the Institute of Agricultural Engineering, Wageningen, Netherlands, has commenced investigations into technical possibilities for **automated dairy cattle farming** (milking, feeding, servicing). 12 ref.

DESCRIPTORS: Cows; Dairy farms; automation; Milking

GEOGRAPHIC NAMES: Netherlands

BROADER TERMS: female animals; animals; Western Europe; Europe

CABICODES: Animal Husbandry (Dairy) (LL110); Milking & Dairy Equipment (NN490)

12/5/34 (Item 14 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02537002 CAB Accession Number: 920452156

Computers on the dairy farm.

Original Title: La informatica en la granja lechera.

Boletin Verde vol. 20 (45): p.6

Publication Year: 1991 --

Language: Spanish

Document Type: Journal article

The effect of **computerization** on Spanish **dairy farms** is considered. The national milk recording system has been computerized for some time, but it is only comparatively recently that computerized systems have been used on individual farms, initially in the form of automatic feed distributors and latterly in the form of herd-management software. The questions of profitability of these systems in relation to farm size and of choice of equipment are considered; it is thought likely that the way forward for Spanish farmers in the short-term will be the cooperative use of computerized systems.

DESCRIPTORS: Cows; Feed dispensers; Dairy farms; farm management;
computers; automatic feed dispensers; Dairy farming; Farms; management;
dairy cattle
GEOGRAPHIC NAMES: Spain
BROADER TERMS: female animals; animals; cattle; Bos; Bovidae; ruminants;
Artiodactyla; ungulates; mammals; vertebrates; Chordata; Southern
Europe; Europe; Mediterranean Countries
CABICODES: Food Industry (EE520); Animal Husbandry (Dairy) (LL110);
Farming Systems & Management (EE200); Information & Library Sciences
(CC300); Farm & Horticultural Structures (NN300); Milk & Dairy Produce
(QQ010); Milking & Dairy Equipment (NN490); Animal Feeding & Watering
Equipment (NN480)

12/5/35 (Item 15 from file: 50)
DIALOG(R)File 50:CAB Abstracts
(c) 2003 CAB International. All rts. reserv.

02496874 CAB Accession Number: 922451784
Experiences of automation and computerization on dairy farms .
Original Title: Esperienze di automazione e informatizzazione negli
allevamenti da latte.
Provolo, G.
Istituto di Ingegneria Agraria, Universita degli Studi di Milano, Milan,
Italy.
Informatore Agrario vol. 45 (28): p.39-42
Publication Year: 1989
ISSN: 0020-0689 --
Language: Italian
Document Type: Journal article
14 ref.

DESCRIPTORS: Milking machines; automation; Farms; dairy farms; computers;
Cows; computer software
BROADER TERMS: female animals; animals
CABICODES: Farm & Horticultural Structures (NN300); Milking & Dairy
Equipment (NN490); Information & Library Sciences (CC300); Animal
Husbandry (Dairy) (LL110); Computer & Electronic Systems (NN050)

12/5/36 (Item 16 from file: 50)
DIALOG(R)File 50:CAB Abstracts
(c) 2003 CAB International. All rts. reserv.

02467568 CAB Accession Number: 910449253
**Developments to standardize the use of information in Dutch dairy
farming.**
Engelbart, F. W. G. A.; Doeksen, J.
TAURUS (Branch Organization for Automation in Dairying), Lelystad,
Netherlands.
Conference Title: Proceedings of the 3rd international congress for
computer technology. Integrated decision support systems in agriculture -
successful practical applications, Frankfurt a.M. - Bad Soden, May 27-30,
1990
p.158-173
Publication Year: 1990
Editors: Kuhlmann, F.
Publisher: Deutsche Landwirtschafts-Gesellschaft (DLG) -- Frankfurt
am Main, Germany
Language: English
Document Type: Conference paper
Two examples are given of the work of TAURUS: (i) the creation of an
information model and data dictionary (terminological classification
system) as a basis for **automated dairy farm** management systems; (ii)

the development of a standard interface for information exchange between process computers (e.g. feed computers) and PCs used for dairy farm management.

DESCRIPTORS: Cows; Dairy farms; management; computer software
IDENTIFIERS: Integrated decision support systems in agriculture
GEOGRAPHIC NAMES: Netherlands
BROADER TERMS: female animals; animals; Western Europe; Europe
CABICODES: Food Industry (EE520); Animal Husbandry (Dairy) (LL110);
Information & Library Sciences (CC300)

12/5/37 (Item 17 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02467215 CAB Accession Number: 910448895

Wider use of automated control systems in dairy husbandry.

Starkov, A. A.; Yun, Yu. M.; Zhitnitskii, V. M.; Vengerova, T. N.
Gosudarstvennyi Proektnyi i Nauchno-Issledovatel'skii Institut po
Proektirovaniyu Zhivotnovodcheskikh Predpriyatii po Proizvodstvu Moloka,
Govyadiny i Svininy, USSR.

Zootekhniya (No. 6): p.55-57

Publication Year: 1988

ISSN: 0235-2478 --

Language: Russian

Document Type: Journal article

Computer software available and currently being developed in the USSR for dairy herd management and other farm applications is described. Developments in computer-controlled milking equipment and feed mixing and distribution are also briefly discussed. Although it is considered that, in general, the installation of **computerized** systems would make **dairy farms** in the USSR more efficient, factors mitigating against this would include: poor existing farm organization and management practices; an av. annual milk yield of <3500 kg; and the capital investment required.

DESCRIPTORS: Cows; Dairy farms; farm management; computer software;
development; Feeding; feed mixing; automation; feed dispensers; Milking
machines

GEOGRAPHIC NAMES: USSR

BROADER TERMS: female animals; animals

CABICODES: Milk & Dairy Produce (QQ010); Information & Library Sciences
(CC300); Milking & Dairy Equipment (NN490); Food Industry (EE520);
Animal Husbandry (Dairy) (LL110)

12/5/38 (Item 18 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02330753 CAB Accession Number: 900442950

**Department of Agricultural Engineering, Federal Institute of
Agricultural Research, Brunswick-Volkenrode.**

Original Title: Institut fur Betriebstechnik.

Germany, Bundesforschungsanstalt fur Landwirtschaft Braunschweig-Volkenrode

Jahresbericht 1988, Bundesforschungsanstalt fur Landwirtschaft
Braunschweig-Volkenrode.

p.103-110

Publication Year: 1989 --

Language: German

Document Type: Annual report

Research projects in the Department of Agricultural Engineering related to occupational safety on farms, optimization of tractor use, conservation of water and energy in irrigation systems, and **computerized** feeding and

milking systems for **dairy farms** .

DESCRIPTORS: Cows

IDENTIFIERS: Bundesforschungsanstalt Landwirtschaft

Braunschweig-Volkenrode; Bundesforschungsanstalt fur Landwirtschaft

GEOGRAPHIC NAMES: German Federal Republic; German Democratic Republic;
Germany

BROADER TERMS: female animals; animals; Western Europe; Europe; Central
Europe

CABICODES: Engineering & Safety (NN000)

12/5/39 (Item 19 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02253251 CAB Accession Number: 900439897

Computerized **veterinary surveillance of dairy farms** .

Original Title: Tierarztliche Betreuung von Milcherzeugerbetrieben
unter Verwendung der EDV.

Schneider, P.; Wiesner, H. U.

Institut fur Hygiene und Technologie der Milch, Tierarztliche
Hochschule, Bischofsholer Damm 15, 3000 Hanover 1, German Federal
Republic.

Conference Title: 30. Arbeitstagung des Arbeitsgebietes
"Lebensmittelhygiene" Leitthema: Verbraucherschutz in den 90er Jahren. In
Garmisch-Partenkirchen vom 25. bis 28. September 1989.

p.294-299

Publication Year: 1989

Publisher: Deutsche Veterinarmedizinische Gesellschaft -- Giessen,
German Federal Republic

Language: German

Document Type: Conference paper

Details are given of computer programs in German for veterinary
surveillance of reproduction, lactation, udder health, feeding and other
aspects of performance in dairy herds. 8 ref.

DESCRIPTORS: Cows; Dairy farms; monitoring; veterinarians

IDENTIFIERS: Deutsche Veterinarmedizinische Gesellschaft

GEOGRAPHIC NAMES: German Federal Republic; Germany

BROADER TERMS: female animals; animals; Western Europe; Europe

CABICODES: Animal Husbandry (Dairy) (LL110); Milking & Dairy Equipment
(NN490)

12/5/40 (Item 20 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02229896 CAB Accession Number: 902443946

Computerized dairy farm **management system developed in Hungary**.

Bak, J.; Kovacs, L.

Hungarian Institute of Agricultural Engineering, Godollo, Hungary.

Hungarian Agricultural Engineering (No. 2): p.40-41

Publication Year: 1989 --

Language: English

Document Type: Journal article

The **computerized dairy farm** management system developed by the
Hungarian Institute of Agricultural Engineering comprises 3 sub-units:
feeding, the milking parlour and breeding sub-systems. The system has a
modular, hierarchical structure, so that any of the 3 sub-systems can be
used independently.

DESCRIPTORS: Dairy farms; management; computers; Cows; computer software

GEOGRAPHIC NAMES: Hungary

BROADER TERMS: female animals; animals; Central Europe; Europe

CABICODES: Farm & Horticultural Structures (NN300); Information & Library Sciences (CC300); Animal Husbandry (Dairy) (LL110); Milking & Dairy Equipment (NN490); Computer & Electronic Systems (NN050)

12/5/41 (Item 21 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02214034 CAB Accession Number: 902443745

The use of electronics for yield orientated dairy cow feeding.

Original Title: Elektronikeinsatz zur leistungsbezogenen Milchviehfütterung.

Pirkelmann, H.; Wendl, G.

Bayerische Landesanstalt für Landtechnik, Vottinger Str. 36, 8050 Freising, German Federal Republic.

Landtechnik vol. 44 (Sonderheft): p.383-387

Publication Year: 1989

ISSN: 0023-8082 --

Language: German Summary Language: english

Document Type: Journal article

Future developments in dairy farming are discussed, including the trend towards larger herds and greater productivity, and the resulting need for improved individual cow feeding regimes. Technology required for optimizing individual cow feeding is reviewed, such as identification devices, milk yield recorders and data collection facilities, and future developments are considered (animal live weight and milk quality monitors). The current status of concentrate feed (transponder feeders, stationary and mobile feeders) and bulk fodder distribution technology (herd and individual basis feeding) is reported. The integration of such technology into commercial **dairy farming**, including computer and **electronic** equipment requirements and costs, is discussed. 6 ref.

DESCRIPTORS: dairy cattle; identification; milk recording; mobile feeders ; Feed dispensers; automatic feed dispensers; Dairy farms; automation; electronics; Cows; Feeding; controls

ORGANISM DESCRIPTORS: Cattle

BROADER TERMS: cattle; Bos; Bovidae; ruminants; Artiodactyla; ungulates; mammals; vertebrates; Chordata; animals; female animals

CABICODES: Animal Feeding & Watering Equipment (NN480); Animal Husbandry (Dairy) (LL110); Milking & Dairy Equipment (NN490); Farm & Horticultural Structures (NN300); Other Equipment (NN900)

12/5/42 (Item 22 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02165939 CAB Accession Number: 892442486

Computerization in stock farming: an indispensable step for progress in cattle rearing.

Original Title: L'informatizzazione degli allevamenti: un passo indispensabile per il progresso della zootecnia.

Sangiorgi, F.

Istituto di Ingegneria Agraria, Univ. degli Studi, Milan, Italy.

Rivista di Ingegneria Agraria (Quaderno No. 10): p.701-705

Publication Year: 1988

ISSN: 0304-0593

Paper presented at the 4th national conference on agricultural engineering, Engineering for the development of agriculture, Porto Conte-Alghero, Italy, 4-6 May 1988 --

Language: Italian Summary Language: english

Document Type: Conference paper; Journal article

The use of **computerized** information systems in **dairy farming** is reported from Italy. Data recorded include milk ejection patterns for each

quarter, characteristics of milk yield (e.g. conductivity), animal strain gauge weights, feeding patterns and information on new milking systems. The objective of the software and hardware developed for a dairy farm is to give the farmer information on which to base judgements of animal and farm efficiency.

DESCRIPTORS: Dairy farming; computers; data processing; Cows; Milk recording

IDENTIFIERS: Ingegneria per lo sviluppo dell'agricoltura; Engineering for the development of agriculture

GEOGRAPHIC NAMES: Italy

BROADER TERMS: female animals; animals; Southern Europe; Europe; Mediterranean Countries

CABICODES: Computer & Electronic Systems (NN050); Animal Husbandry (Dairy) (LL110); Milking & Dairy Equipment (NN490); Farm & Horticultural Structures (NN300)

12/5/43 (Item 23 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02151036 CAB Accession Number: 892442040

Research institute of agricultural engineering annual report.

Original Title: Zprava ocinnosti Vyzkumneho Ustavu Zemedelske Techniky. Czechoslovakia, Vyzkumny Ustav Zemedelske Techniky

Vyzkumny Ustav Zemedelske Techniky, 163 07 Prague 6 - Repy, Czechoslovakia.

184 pp.

Publication Year: 1989

Publisher: Vyzkumny Ustav Zemedelske Techniky -- Prague, Czechoslovakia

Language: Czech Summary Language: russian; french; english; german

Document Type: Annual report

Research projects conducted during 1988 include work on soil conservation, reduction of soil compaction, fertilizer application rates, field tests on combine harvesters, grain driers (improving performance and automatic control), grain properties, potato, forage and sugarbeet harvesting methods and equipment, cattle feeding and **automated dairy farms** pig slurry treatment and utilization, transport and materials handling, energy systems, automatic control and information systems for management of agricultural processes.

IDENTIFIERS: Vyzkumny Ustav Zemedelske Techniky

GEOGRAPHIC NAMES: Czechoslovakia

BROADER TERMS: Central Europe; Europe

CABICODES: Engineering & Safety (NN000)

12/5/44 (Item 24 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02141249 CAB Accession Number: 890433704

Dairy cow disposal rates from commercial dairy farms participating in the DAIRYMIS II computerised management information system in Ireland.

Crosse, S.; O'Donovan, S.

Moorepark Res. Cent., Fermoy, Co. Cork, Irish Republic.

Irish Veterinary Journal vol. 42 (6-7): p.75-78

Publication Year: 1989

ISSN: 0368-0762 --

Language: English

Document Type: Journal article

Cow disposal rates from 26-35 dairy herds participating in the DAIRYMIS II system were analysed over a 6-yr period (1980-85). The primary reasons

for disposal together with the effect of parity, season of disposal and farm effect were retrieved from the computer records. The av. disposal rate recorded was 17.56% (13.68% for involuntary and 3.88% for voluntary reasons). Reproductive problems were the most common reason given for involuntary culling, followed by mastitis. The highest culling rate (6.72%) was recorded for older cows (>4 lactations), but the culling rate for 1st-lactation cows was also relatively high (3.78%). The seasonal distribution of cow disposals was relatively constant, with the peak of culling in Jan. Considerable variation in culling rates between herds was recorded, indicating the importance of management factors. 10 ref.

DESCRIPTORS: Cows; Dairy cattle; culling; incidence; Mastitis; dairy herds

ORGANISM DESCRIPTORS: cattle

GEOGRAPHIC NAMES: Irish Republic

BROADER TERMS: female animals; animals; cattle; Bos; Bovidae; ruminants; Artiodactyla; ungulates; mammals; vertebrates; Chordata; British Isles; Western Europe; Europe

CABICODES: Animal Husbandry (Dairy) (LL110); Animal Breeding & Genetics (LL200); Animal Reproduction & Development (LL210)

12/5/45 (Item 25 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02129891 CAB Accession Number: 890432818

The impact of a computerised dairy information system on large dairy farms in Malaysia.

Pharo, H. J.; Sopian, M. J.

Dep. Vet. Services, Kementerian Pertanian, Jalan Mahameru, 50360 Kuala Lumpur, Malaysia.

Acta Veterinaria Scandinavica (Supplement 84): p.197-199

Publication Year: 1988

ISSN: 0044-605X --

Language: English

Document Type: Journal article

A computerized dairy information system, DAISY, was introduced on 5 government dairy farms during 1985, 1986 and 1988. Standard DAISY reports were run for cows calving in successive 12-month periods, with an overlap of 9 months for each period, giving 12-month rolling av. figures. Heat detection efficiency was further analysed using DAISY reports and by moving data to other programs. 2 ref.

DESCRIPTORS: Cows; Dairy farms; computer software; Dairy farming; information systems

IDENTIFIERS: DAISY

GEOGRAPHIC NAMES: Malaysia

BROADER TERMS: female animals; animals; South East Asia; Asia

CABICODES: Animal Husbandry (Dairy) (LL110); Milking & Dairy Equipment (NN490); Information & Library Sciences (CC300); Farm & Horticultural Structures (NN300); Computer & Electronic Systems (NN050)

12/5/46 (Item 26 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02117044 CAB Accession Number: 892440842

Electricity requirements of computer aided livestock production systems.

Original Title: Elektroenergiebedarf rechnergestutzter Produktionsverfahren in der Innenwirtschaft.

Wenner, H. L.; Auernhammer, H.; Demmel, M.

Inst. Landtech., Vottinger Strasse 36, 8050 Freising, German Federal Republic.

Landtechnik vol. 44 (2): p.73-76

Publication Year: 1989

ISSN: 0023-8082 --

Language: German Summary Language: english

Document Type: Journal article

The electricity consumption of individual components of automated husbandry systems was monitored on a dairy farm, a breeding sow farm and in a pig fattening unit. The measuring systems used are described. On the dairy farm, the vacuum pump, cooling and milking machine cleaning accounted for 75% of electricity consumption, whilst in the pig units the highest consumption was for the feed distribution pump. **Electronic** components in the **dairy farm**, breeding sow and fattening units accounted for 21, 34 and 23% of total electricity consumption, resp.

DESCRIPTORS: Automation; animal husbandry; dairy cattle; energy requirements; electricity; Housing; Cows; Dairy farms; consumption

ORGANISM DESCRIPTORS: pigs; Cattle

BROADER TERMS: cattle; Bos; Bovidae; ruminants; Artiodactyla; ungulates; mammals; vertebrates; Chordata; animals; female animals; Sus; Suidae; Suiformes; Sus scrofa

CABICODES: Farm & Horticultural Structures (NN300); Food Industry (EE520); Milk & Dairy Produce (QQ010); Energy (PP100); Other Equipment (NN900)

12/5/47 (Item 27 from file: 50)

DIALOG(R) File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

02041978 CAB Accession Number: 881860241

Study on the impact of the use of computers on 163 dairy and horticultural farms in Flanders.

Original Title: Etude de l'impact de l'utilisation d'ordinateurs dans 163 exploitations laitières et horticoles en Flandre.

Cuypers, B.; Tollens, P.

Katholieke Univ. Leuven, Fac. der Landbouwwetenschappen, Cent. voor Onderzoek van Computerondersteunende, Beheerssystemen op het Land- en Tuinbouwbedrijf, Kardinaal Mercierlaan 92, B-3030 Heverlee, Belgium.

Revue de l'Agriculture vol. 41 (3): p.701-711

Publication Year: 1988

ISSN: 0776-2143

12 fig. --

Language: French

Document Type: Journal article

A 1986 survey on 163 dairy and horticultural farms in Flanders, Belgium, was designed to collect information on the use of microcomputers, on the types of users, farmers' attitudes towards the adoption of new techniques, their motives for purchasing them, levels of satisfaction obtained, the different methods of utilization, levels of investment and resulting costs for the farm, and the impact on farm management and farm income. The principal findings of the survey are summarized. Use of the computer represents a considerable investment for both types of farm. In the case of dairy farms, investment can only be made if the farm is relatively large, quite specialized and has quite high returns. Here the computer is considered an effective means to improve overall control of the farm and has many advantages in terms of farm management. It is used mainly for the programmed distribution of concentrates, for the registering of cowsheds and dairy buildings and for the electronic monitoring of dairy production. Any increase in revenue results mainly from an increase in production or a reduction of food costs. However, although use of the computer is positive if the dairy sector is looked at as a whole, it has not proved successful for all **dairy farms**. In horticultural enterprises, use of **computerized** techniques is more widespread and is employed primarily to control climate and for automated irrigation. However, one third of those farms do not exploit all of the computer's possible uses. Again the impact on farm management is positive and over half of all farms attribute increases in both production and revenue to the computer. Attitudes

towards them are gradually becoming more positive, since considerable savings can be made, particularly in terms of labour costs. 4 ref.

DESCRIPTORS: Microcomputers; investment; farm management; farm results;
Dairy farming; farm surveys; Horticulture; Cows; Dairy farms;
management; computers

GEOGRAPHIC NAMES: Belgium

BROADER TERMS: female animals; animals; Western Europe; Europe

CABICODES: Farming Systems & Management (EE200); Information & Library
Sciences (CC300); Investment, Finance & Credit (EE800); Animal
Husbandry (Dairy) (LL110); Milking & Dairy Equipment (NN490); Food
Industry (EE520); Milk & Dairy Produce (QQ010)

12/5/48 (Item 28 from file: 50)

DIALOG(R)File 50:CAB Abstracts

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01737336 CAB Accession Number: 861834351

The changing dairy farm.

Stanton, B. F. (et al.)

Additional Authors: Irish, W. W.; Smith, T. R.; Lazarus, W. F.; Smith,
R. D.; Galton, D. M.; Everett, R. W.; Novakovic, A.; Sniffen, C. J.;
Bergstrom, G. C.; McDowell, R. E.

New York's Food and Life Sciences Quarterly vol. 16 (2): 32pp.

Publication Year: 1986

pl., fig., tab., OAE --

Language: English

Document Type: Miscellaneous

Several articles deal with various aspects of dairy farming, largely based on US experience. (1) The changing dairy farm (Stanton) examines remarkable changes in dairy housing, milking systems, dairy nutrition and management which have led to increased productivity in New York; (2) The modern dairy complex (W.W. Irish, et al.) considers modern housing, feed storage and handling, milking and milk handling, and manure handling and use; (3) The **electronic** revolution on the **dairy farm** (T.R. Smith, et al.) considers the use of microelectronics and the microcomputer for identification, feed control, production monitoring, estrus detection, and mastitis detection; (4) Managing information on the farm (W.F. Lazarus, et al.); (5) An integrated approach to reproductive management (R.D. Smith, et al.); (6) Healthy cows make better milk (D.M. Galton, et al.); (7) Genetic improvement in dairy cattle (R.W. Everett, et al.); (8) The changing market environment for the dairy industry (A. Novakovic); (9) Crops to meet the needs of the dairy cow (C.J. Sniffen); (10) Integrated pest management on the dairy farm (G.C. Bergstrom); and (11) The international livestock scene (R.E. McDowell).

DESCRIPTORS: Dairy farming; Cows; Cow housing; Dairy cattle; management;
computers; Cattle housing; dairy farms; Milking parlours; Electronics;
dairy cows; applications; Milking

GEOGRAPHIC NAMES: USA; New York

BROADER TERMS: female animals; animals; cattle; Bos; Bovidae; ruminants;
Artiodactyla; ungulates; mammals; vertebrates; Chordata; dairy cattle;
North America; America; Middle Atlantic States of USA; Northeastern
States of USA; USA

CABICODES: Farming Systems & Management (EE200); Information & Library
Sciences (CC300); Animal Husbandry (Dairy) (LL110); Animal Husbandry
(General) (LL100); Farm & Horticultural Structures (NN300); Milking &
Dairy Equipment (NN490)

12/5/49 (Item 29 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

01679938 CAB Accession Number: 852427421

Possible applications of electronic management systems on dairy farms .

Original Title: Gebruiksmogelijkheden van elektronische managementsystemen op melkveebedrijven.

Folkerts, H.; Maatje, K.

Inst. voor Mechanisatie, Arbeid en Gebouwen, P.O. Box 43, 6700 AA Wageningen, Netherlands.

Landbouwmecanisatie vol. 36 (10): p.1059-1061

Publication Year: 1985

ISSN: 0023-7795

1 fig., 1 tab. --

Language: Dutch

Document Type: Journal article

The use of computers for management (cow administration, reproduction, feeding, production control, health) is discussed. Functions fulfilled by 4 commercial computer programs are listed. Systems for cow identification, concentrate distribution in the feeding stall and the keeping of the cow calendar are now functioning well on a large number of farms.

DESCRIPTORS: Management; computers; dairy farms; Cows; Dairy cattle

BROADER TERMS: female animals; animals; cattle; Bos; Bovidae; ruminants;

Artiodactyla; ungulates; mammals; vertebrates; Chordata

CABICODES: Farming Systems & Management (EE200); Animal Husbandry (Dairy)

(LL110); Milking & Dairy Equipment (NN490); Computer & Electronic

Systems (NN050)

12/5/50 (Item 30 from file: 50)

DIALOG(R) File 50:CAB Abstracts

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01646977 CAB Accession Number: 850400993

Milk.

Farmers Weekly vol. 103 (11, Supplement): 31pp.

Publication Year: 1985

ISSN: 0014-8474 --

Language: English

Document Type: Miscellaneous

The supplement contains several short articles relating to breeding and feeding to improve milk composition, milk yield and profitability, articles relating to fertility control, farm reports and articles on water pollution from **dairy farms**, leptospirosis and the Databull **computerized** mating system for dairy cows.

DESCRIPTORS: Cows; Milk production; economics

GEOGRAPHIC NAMES: UK

BROADER TERMS: female animals; animals; British Isles; Western Europe; Europe

CABICODES: Animal Husbandry (Dairy) (LL110); Economics (General) (EE100)

12/5/51 (Item 31 from file: 50)

DIALOG(R) File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

01634577 CAB Accession Number: 852265854

Health control programme carried out on an intensive dairy farm by means of the DISKOT computerized system.

Original Title: Realizacia zdravotneho programu vo VKK systemom DISKOT.

Pazitka, V.; Dzurianin, M.; Pliesovsky, J.; Lackova, D.

Veterinarstvi vol. 35 (6): p.269-271

Publication Year: 1985 --

Language: Slovakian

Document Type: Journal article

DESCRIPTORS: Computers; Information processing; Disease control
GEOGRAPHIC NAMES: Czechoslovakia
BROADER TERMS: Central Europe; Europe
CABICODES: Animal Health & Hygiene (General) (LL800); Information &
Library Sciences (CC300); Pathogen, Pest & Parasite Management
(General) (HH000)

12/5/52 (Item 32 from file: 50)

DIALOG(R)File 50:CAB Abstracts

(c) 2003 CAB International. All rts. reserv.

01392497 CAB Accession Number: 832418342

Automated dairy farming management systems of technological processes.

Garanch, E. G.; Laurs, A. R.

Leading Specialized Construction Bureau, Cattlefarm Mechanization, Riga, Latvian SSR, USSR.

Conference Title: Automation in dairying. Proceedings of Symposium, Wageningen, Netherlands, April 20-22, 1983
p.253-259

Publication Year: 1983

1 fig.

Publisher: Instituut voor Mechanisatie, Arbeid en Gebouwen --
Wageningen, Netherlands

Language: English

Document Type: Conference paper

Aspects of automation briefly discussed include milk yield recording, disease detection, feeding, oestrus detection and cow identification.

DESCRIPTORS: Cows; dairy farming; management; automation; milk recording; electronics; health; monitoring; dairy cattle; identification; oestrus; diseases; detection

IDENTIFIERS: Automation in dairying

ORGANISM DESCRIPTORS: cattle

BROADER TERMS: female animals; animals; cattle; Bos; Bovidae; ruminants; Artiodactyla; ungulates; mammals; vertebrates; Chordata

CABICODES: Farm & Horticultural Structures (NN300); Animal Husbandry (Dairy) (LL110); Milking & Dairy Equipment (NN490); Computer & Electronic Systems (NN050)

12/5/53 (Item 33 from file: 50)

DIALOG(R)File 50:CAB Abstracts

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01390087 CAB Accession Number: 832415837

Fully automated dairy farming .

Original Title: Automatisatie integrale dans l'exploitation laitiere.

Loocke, E. van

Lab. mecanisation agric., Faculte des Sci. Agron., Rijksuniversiteit, Coupure Links 533, 9000 Gent, Belgium.

Agro vol. 1 (1): p.39-48

Publication Year: 1982

ISSN: 0771-2359

2 fig., 1 tab. --

Language: French Summary Language: english

Document Type: Journal article

Uses of computers in dairy farming include livestock identification using an emitter either in or on the cow; feed quantity, controlled by the computer, is automatically determined in terms of each cow's milk production. The computer as a management aid for the farmer is considered: sanitary and environmental conditions may be controlled. Videotext (telephone access to computer information services) allows the farmer to

use technical, bibliographic and commercial data banks, and may be used to achieve better management and monitoring of the dairy herd. 9 ref.

DESCRIPTORS: computers; dairy farming; management; farm management; automation

CABICODES: Computer & Electronic Systems (NN050); Animal Husbandry (Dairy) (LL110); Farming Systems & Management (EE200); Information & Library Sciences (CC300); Farm & Horticultural Structures (NN300)

12/5/54 (Item 34 from file: 50)

DIALOG(R)File 50:CAB Abstracts

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01079962 CAB Accession Number: 811873885

A microprocessor controlled farm management system.

Hollis, P.; Hindmarch, R. W.

R.J. Fullwood and Bland Ltd., UK.

Agricultural Engineer vol. 35 (2): p.35-37

Publication Year: 1980

ISSN: 0308-5732

2 fig. --

Language: English

Document Type: Journal article

Secondary Journal Source: Agricultural Engineering Abstracts 5, 12, 4868.

A computerized dairy farm management system is described which includes a method of cow identification in the milking parlour so that concentrate feeding and milk yield recording can be automated. Cows leaving the parlour are identified and weighed on a walk-through weigher. All information passes via a parlour control unit to the management computer and magnetic disc store. 3 ref.

DESCRIPTORS: dairy farming; farm management; minicomputers; dairy farms; management; computers; microprocessors; data processing; transponders; identification; COWS

IDENTIFIERS: computerization

GEOGRAPHIC NAMES: UK

BROADER TERMS: female animals; animals; British Isles; Western Europe; Europe

CABICODES: Farming Systems & Management (EE200); Information & Library Sciences (CC300); Animal Husbandry (Dairy) (LL110); Milking & Dairy Equipment (NN490); Engineering & Safety (NN000); Computer & Electronic Systems (NN050); Farm & Horticultural Structures (NN300)

12/5/55 (Item 35 from file: 50)

DIALOG(R)File 50:CAB Abstracts

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00993612 CAB Accession Number: 810464846

Impressions of a visit to Germany.

Original Title: Impresiones de un viaje por Alemania.

Remon Eraso, J.

Sociedad Nestle, AEPA, Avda. del Generalísimo Franco, 33-49, Esplugas de Llobregat, Barcelona, Spain.

Boletín Verde vol. 9 (24): p.5-7

Publication Year: 1980

ISSN: 0213-8960 --

Language: Spanish

Document Type: Journal article

This report of a visit to Schleswig-Holstein and Lower Saxony, German Federal Republic, deals mainly with **dairy farming**. Systems of milking, **automated** feeding and mechanized manure removal are described, and brief information is given on breeds, milk yields, milk quality and mastitis control.

DESCRIPTORS: dairy farming; manures; disposal; dairy farms; feeding;
automation; mastitis; control
GEOGRAPHIC NAMES: German Federal Republic; Germany
BROADER TERMS: Western Europe; Europe
CABICODES: Animal Husbandry (Dairy) (LL110); Milking & Dairy Equipment
(NN490); Fertilizers & other Amendments (JJ700); Animal Wastes (XX100);
Pathogen, Pest & Parasite Management (General) (HH000)

12/5/56 (Item 36 from file: 50)

DIALOG(R)File 50:CAB Abstracts

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00992677 CAB Accession Number: 800463558

Microflora of milk produced under industrial conditions.

Slavchev, G.

Khranitelna Promishlenost vol. 28 (2): p.22-24

Publication Year: 1979 --

Language: Bulgarian

Document Type: Journal article

Microbiological quality of milk was studied on a 2000-cow complex using the Karusel (rotary) **automated** milking system and on other **dairy farms** using bucket milking systems of the DA-ZM and Impuls-M61 types. On the 2000-cow complex, udders were sprayed with warm water and then wiped with a towel impregnated with 0.5% disinfectant solution (Trozilín Kombi); the Karusel milking units were cleaned automatically by 2 programmes, with circulation of 0.25% detergent/disinfectant solution for 5 min before milking and 0.5% solution for 30 min after milking. Milk obtained under these conditions was of satisfactory quality, with an av. count of 17 360 bacteria/ml (range 4000-52 000). This contrasted with an av. count of 1 080 200/ml (including 22.7% psychrotrophs and 5.8% thermotolerant) in milk produced with the practices commonly employed on Bulgarian farms, viz.: washing of udders with warm or cold water, with or without subsequent drying; and cleaning of milking units with 8-10 l water at 40-60 deg C, with or without detergent powder. Much lower bacterial counts (34 360/ml, with 6.8% psychrotrophs and 2.7% thermotolerant) were achieved, however, when the author's own procedure was used for disinfection of udders (with a towel impregnated in 0.04% Antizherm-50 or 4% Iosan CCT) and for cleaning of milking machines (with 0.4% Antizherm-50 or 0.1% Aktofor C). It is pointed out that annual costs of the disinfectants are not more than L8, and the resultant improvement in milk quality increases revenue by L135.
15 ref.

DESCRIPTORS: milk hygiene; milk quality; bacteriology; economics

GEOGRAPHIC NAMES: Bulgaria

BROADER TERMS: Balkans; Southern Europe; Europe

CABICODES: Milk & Dairy Produce (QQ010); Economics (General) (EE100)

12/5/57 (Item 37 from file: 50)

DIALOG(R)File 50:CAB Abstracts

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00992671 CAB Accession Number: 800463552

Dairy farm equipment at the DLG show in Hanover.

Original Title: Melkwinningsapparaat op de DLG te Hannover.

Boeve, E.; Herbers, G. H.; Koopmans, T.

CR Zwolle, Netherlands.

Zuivelzicht vol. 72 (44): p.936-938

Publication Year: 1980

ISSN: 0165-8573 --

Language: Dutch

Document Type: Journal article

Milking installations, milk meters, mastitis detectors, milk-cooling

tanks, heat recovery units, pre-coolers, **automated** concentrate dispensers and other **dairy farm** equipment exhibited by the following firms at the Deutsche Landwirtschafts Gesellschaft biennial agricultural show (12-18 Sept. 1980, Hanover, German Federal Republic) are described: Alfa-Laval; Etscheid; Flaco; Fullwood; Miele; Gascoignes; Melotte; Mueller; Senior; Strangko; and Westfalia.

DESCRIPTORS: dairy equipment

IDENTIFIERS: exhib; Hanover

GEOGRAPHIC NAMES: German Federal Republic; Germany

BROADER TERMS: Western Europe; Europe

CABICODES: Animal Husbandry (Dairy) (LL110); Milking & Dairy Equipment (NN490)

12/5/58 (Item 38 from file: 50)

DIALOG(R) File 50:CAB Abstracts

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00851900 CAB Accession Number: 800459117

Automation and information services in cattle farming.

Original Title: Automatisering, informatieverstrekking in rundveehouderij.

Boonman, D. C. M.

Proefstation voor de Rundveehouderij, Lelystad, Netherlands.

Zuivelzicht vol. 72 (15): p.339-341

Publication Year: 1980

ISSN: 0165-8573 --

Language: Dutch

Document Type: Journal article

This edited version of a paper presented at a meeting on automation in agriculture (Nuland, Netherlands, 27 March 1980) discusses the need for automation and **computerized** information systems on **dairy farms** in the Netherlands. This need has increased because of the increase in size of farms (31 504 of the 75 113 dairy farms in the Netherlands in 1978, vs. only 14 447 of 116 332 farms in 1970, had more than or equal to 30 cows) and because of the rise in milk yield/cow, which necessitates careful control of the concentrate:roughage ratio in feeding. In this connection electronic systems for cow identification have enormous potential, not only for dispensing concentrates but also for recording milk yields, detecting cows with abnormal milk, measuring milk temp., monitoring milking machines, dividing cows into groups, etc. Already 36 000 dairy farms (with 66% of the dairy cow population) in the Netherlands are milk-recorded; 5400 receive detailed advice on feeding (including concentrate rations to be allocated to each cow) based on milk recording results; about 20 000 receive computerized advice on fertilizer use, based on soil analysis; and 15 000-18 000 benefit from computerized crop-testing services which, coordinated with milk recording services, can be used to optimize all aspects of feeding. Milk recording can also be linked with economic analysis of farms' results, and possibilities of integrated farm management have greatly increased with the advent of the micro-processor. The need for a coordinated approach to the whole question of automation and information provision in Dutch agriculture is stressed.

DESCRIPTORS: dairy farms; dairy farming; automation; farm management; data collection; computer programming

IDENTIFIERS: computerization

GEOGRAPHIC NAMES: Netherlands

BROADER TERMS: Western Europe; Europe

CABICODES: Food Industry (EE520); Animal Husbandry (Dairy) (LL110); Farming Systems & Management (EE200)

12/5/59 (Item 39 from file: 50)

DIALOG(R) File 50:CAB Abstracts

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00847761 CAB Accession Number: 790452610

Problems in machine milking of cows.

Admin, E. I.; Savran, V. P.

Nauchno-issled. Inst. Zhivotnovodstva Lesostepi i Poles'ya USSR, Kharkov, Ukrainian SSR.

Conference Title: USSR, Nauchnyi Sovet po Fiziologii i Biokhimi Sel'skokhozyaistvennykh Zhivotnykh; USSR, Golovnoe Spetsializirovanoe Konstruktorskoe Byuro po Kompleksu Mashin dlya Ferm Krupnogo Rogatogo Skota; USSR, Vsesoyuznyi Nauchno-Issledovatel'skii Institut Fiziologii, Biokhimi i Pitaniya Sel'skokhozyaistvennykh Zhivotnykh: 5th All-Union Symposium on Machine Milking of Farm Animals, Riga, 17-20 April 1979. Part II.: V Vsesoyuznyi Simpozium po Mashinnomy Doeniyu Sel'skokhozyaistvennykh Zhivotnykh, Riga, 17-20 aprelya 1979 g. Tezisy dokladov. Chast' II.

p.102-104

Publication Year: 1979

Publisher: Akademiya Nauk SSSR. -- Moscow, USSR

Language: Russian

Document Type: Miscellaneous

Technical problems and deficiencies in the milking installations currently used in the USSR are discussed in the light of the authors' investigations. Most **dairy farms** in the USSR have non-**automated** tandem or herringbone parlours, in which one operator can milk 28-30 and 35-40 cows/h, resp. These parlours can only be operated for 7-8 h/day, but this could be doubled if their technical reliability were improved. One herringbone parlour operated in 2 shifts could then milk 500 cows/day, as has been demonstrated at the authors' institute. The institute has also successfully solved the problem of milking cows in the herringbone parlour from the very 1st day after calving. This has been achieved by redesigning the pits and stalls, increasing the length of the short milk tubes (to allow for the greater size of the udder in the 10-15 days after calving) and reducing the vacuum to 250-280 mmHg. It has been found that when cows are milked in the herringbone parlour from the 1st day after calving, their milk yield increases by 8-15% in the 1st 3 months; but yield drops 4-11% if cows are first milked with portable machines in the calving unit, then transferred to loose-housing and parlour milking (the current practice on most farms). Other problems discussed in the article include deficiencies in teatcups, claws, pulsators, vacuum systems and milk meters.

DESCRIPTORS: milking parlours; milking machines; performance; operation; milk yield

IDENTIFIERS: herringbone; tandem; newly calved cows

CABICODES: Animal Husbandry (Dairy) (LL110); Milking & Dairy Equipment (NN490)

12/5/60 (Item 40 from file: 50)

DIALOG(R)File 50:CAB Abstracts

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00823944 CAB Accession Number: 792240847

Cell counts in bulked milk supplies from dairy farms of Northern Nigeria.

Lombin, L. H.; Esievo, K. A. N.

Dep. Vet. Publ. Hlth Preventive Med., Ahmadu Bello Univ., Zaria, Nigeria.

Tropical Animal Health and Production vol. 11 (3): p.171-174

Publication Year: 1979

ISSN: 0049-4747 --

Language: English Summary Language: spanish; french

Document Type: Journal article

Somatic cells in 596 milk samples collected from bulked supplies of 3 northern Nigeria **dairy farms** were counted by an **electronic** method. A

low level of infection was associated with mean cell counts of 158 597, 166 742 and 155 032 for the 3 farms. Cell counts indicative of herd mastitis averaged 354 768 plus or minus 66 348; the pathogenic organisms isolated were Escherichia coli and Staphylococcus aureus. Counts useful for future regular monitoring of bulked milk supplies in northern Nigeria are presented. 8 ref.

DESCRIPTORS: Cell counting; milk; bovine mastitis; LEUKOCYTE COUNT; mastitis; detection; bacterial diseases; cattle diseases
IDENTIFIERS: cell count in Nigeria; milk cell count; causative organisms
ORGANISM DESCRIPTORS: cattle; Escherichia coli; Staphylococcus aureus
GEOGRAPHIC NAMES: Nigeria
BROADER TERMS: Bos; Bovidae; ruminants; Artiodactyla; ungulates; mammals; vertebrates; Chordata; animals; Escherichia; Enterobacteriaceae; Gracilicutes; bacteria; prokaryotes; Staphylococcus; Micrococcaceae; Firmicutes; West Africa; Africa South of Sahara; Africa
CABICODES: Parasites, Vectors, Pathogens & Biogenic Diseases of Animals (LL820)

12/5/61 (Item 41 from file: 50)
DIALOG(R)File 50:CAB Abstracts
(c) 2003 CAB International. All rts. reserv.

00478303 CAB Accession Number: 770432261
Experiences with the official Udder Health Service in Lower Saxony. I. Results of the milk producer consultation.

Frank, W.
Tieresgesundheitsamt, Hannover, German Federal Republic.
Deutsche Tierarztliche Wochenschrift vol. 83 (7): p.333-337
Publication Year: 1976 --
Language: German Summary Language: english
Document Type: Journal article

The operation and first results obtained with the obligatory Udder Health Service (UHS) in Lower Saxony, involving advice to dairy farmers on milking hygiene and routine control of milk quality by electronic cell counting, are described. Faulty machine milking techniques were found in 98% of 122 **dairy farms** with abnormally high **electronic** cell counts in the milk. 14 ref..

DESCRIPTORS: health; LEUKOCYTE COUNT; milk; mastitis; control; milk hygiene; milking machines; incidence
IDENTIFIERS: udder; service; Germany German Federal Republic
CABICODES: Milk & Dairy Produce (QQ010); Pathogen, Pest & Parasite Management (General) (HH000)

12/5/62 (Item 42 from file: 50)
DIALOG(R)File 50:CAB Abstracts
(c) 2003 CAB International. All rts. reserv.

00426217 CAB Accession Number: 751823822
Biological and technical progress in milk production and protein production. Part II. Feeding, milk yields and economics in dairy farming.

Original Title: Biologisch-technische Fortschritte in der Milchproduktion und Proteingewinnung. Zweiter Teil. Fütterung, Milchleistung und Wirtschaftlichkeit in der Milchviehhaltung.

Additional Authors: Meinhold, K.; Walter, K.; Olfe, H. C.; Rosegger, S.; Schlunsen, D.

Berichte über Landwirtschaft (No.191, Sonderheft): 291pp.

Publication Year: 1975

ISSN: 0005-9080

107 fig., 119 tab., bibl. --

Language: German Summary Language: english

Document Type: Miscellaneous

This second part of the documentation of the Federal Ministry of Agriculture's co-ordinated research programme on various aspects of dairy husbandry and milk production again mainly includes papers describing scientific and technical aspects of the research. Papers with particular economic interest include: preliminary remarks and a final summing up of the problem area (feeding, milk yields, economics of dairy farming) (K. Meinhold); the competitiveness of single complete diets as compared to mixed diets with several components (K. Meinhold and K. Walter); comparative analysis of labour requirements and costs of selected methods of dairy farming (H. C. Olfe and K. Walter); the unicar system as a method of working out basic data on dairy farming (S. Rosegger and D. Schlunsen) (This describes a semi-automated system with the cows being moved around on small trucks fitted with feeding, milking and cleaning equipment); technical and economic significance of simultaneously increasing the frequency of milking and feeding in a partly **automated dairy farming** system (K. Meinhold and S. Rosegger).

DESCRIPTORS: dairy farms; research

GEOGRAPHIC NAMES: German Federal Republic; Germany

BROADER TERMS: Western Europe; Europe

CABICODES: Farming Systems & Management (EE200); Farm Input Utilization (EE145)

12/5/63 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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04453201 JICST ACCESSION NUMBER: 99A1035448 FILE SEGMENT: JICST-E

Offering of agricultural administration information and promotion of computerization in agriculture and farming village. (Ministry of Agriculture, Forestry and Fisheries, Tohoku Regional Agricultural Administration Office S).

Minist. of Agric., For. and Fish., Tohoku Reg. Agric. Adm. Off.

Tohoku Nogyo Josei Hokoku, 1999, VOL.1998, PAGE.227-232, TBL.3

JOURNAL NUMBER: J0621AAK

UNIVERSAL DECIMAL CLASSIFICATION: 63:002

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

DESCRIPTORS: agriculture; agricultural district; information service; information network; agricultural management; Tohoku District

BROADER DESCRIPTORS: industry; district; service; network; Japan; East Asia ; Asia

CLASSIFICATION CODE(S): FA01020I

12/5/64 (Item 2 from file: 94)

DIALOG(R)File 94:JICST-EPlus

(c)2003 Japan Science and Tech Corp(JST). All rts. reserv.

03226577 JICST ACCESSION NUMBER: 97A0400729 FILE SEGMENT: JICST-E

Development of an agricultural support system using network. Present state and possibility of an agro-meteorological information system. (Telecommunication popularization foundation S).

HOSHIKAWA KAZUTOSHI (1)

(1) Shinshu Univ., Fac. of Agric.

Denki Tsushin Fukyu Zaidan Kenkyu Chosa Hokokusho, 1997, NO.11,

PAGE.191-199, FIG.2, TBL.3, REF.7

JOURNAL NUMBER: J0374AAF ISSN NO: 0918-7332

UNIVERSAL DECIMAL CLASSIFICATION: 631.1 551.50:63

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: The present **computerization** and networks of **agriculture** and **farming** villages were investigated, and problems and potentials were examined especially from the viewpoint of weather information use. Hardware construction and equipment installation are leading computerization in farming villages. For example, wire broadcasting telephone, wireless broadcast communication, CATV, and personal computer communication can be listed. Weather information is fundamental part of agriculture-related information, and rural CATV facilities have recently been used also for providing weather information. As a network application using regional meteorological data, this paper describes flowering time forecast of fruit trees using regional temperature data.

DESCRIPTORS: agriculture; computer application; information network; communication equipment; weather information; CATV; agricultural meteorology

BROADER DESCRIPTORS: industry; utilization; network; facility; information; reception system; communication system; method; television broadcast; broadcast; telecommunication; meteorological phenomenon

CLASSIFICATION CODE(S): FB01020L; DC05030Z

12/5/65 (Item 3 from file: 94)

DIALOG(R) File 94:JICST-EPlus

(c)2003 Japan Science and Tech Corp(JST). All rts. reserv.

02053967 JICST ACCESSION NUMBER: 94A0210081 FILE SEGMENT: JICST-E
Reports on agriculture situation in Tohoku District. Fiscal 1992. Trend in agriculture in Tohoku District. (Sponsor : Ministry of Agriculture, Forestry and Fisheries, Tohoku Regional Agricultural Administration Office).

Ministry of Agriculture, Forestry and Fisheries, Tohoku Regional
Agricultural Administration Office

Tohoku Nogyo Josei Hokoku, 1993, VOL.1992, PAGE.201P, FIG.47, TBL.150

JOURNAL NUMBER: J0621AAK

UNIVERSAL DECIMAL CLASSIFICATION: 631.1 633/635

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Commentary

MEDIA TYPE: Printed Publication

ABSTRACT: Contents of this report are follows.1) Trend in agricultural economy (economy and agriculture in Tohoku, trends such as farmhouse economy, present states of agricultural cooperatives).2) Trend in agriculture structure (trend in farmhouse and agricultural manpower, trend in farmlands, trend in farmland mobilization, conversion state into corporations).3) Farming village improvement (outline of farming village improvement, execution state according to works, management of land improvement assets).4) Trend in agricultural production (general conditions of agricultural production, outline of production according to crop kinds, movement on paddy agriculture, measures for environmental conservation agriculture, movement for export of agricultural products).5) Measures for agriculture and farming village activation (land use and activation).6) Development of new technology such as biotechnology and **computerization** of **agriculture** and **farming** village.7) Eating habits and food industry.

DESCRIPTORS: Tohoku District; agricultural economy; farm land; land improvement; eating habit; cultivation; crop(agriculture); labor force

BROADER DESCRIPTORS: Japan; East Asia; Asia; economy; lot(land); improvement; habit

CLASSIFICATION CODE(S): FB01020L; FC03010R

12/5/66 (Item 4 from file: 94)

DIALOG(R) File 94:JICST-EPlus

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00098618 JICST ACCESSION NUMBER: 85A0305210 FILE SEGMENT: JICST-E
**Utilization of solar energy for dairy farming (III) - Experiments for
compound solar system.**

YAMADA HISAYA (1); KAWAMURA NOBORU (1); NAMIKAWA KIYOSHI (1)

(1) Kyoto Univ., Faculty of Agriculture

Nogyo Kikai Gakkaishi (Journal of the Japanese Society of Agricultural
Machinery), 1985, VOL.47, NO.1, PAGE.79-84, FIG.7, TBL.2, REF.9

JOURNAL NUMBER: G0975AAP ISSN NO: 0285-2543 CODEN: NKIGA

UNIVERSAL DECIMAL CLASSIFICATION: 662.997.002.5 696.1/.4

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: Reference is made to the previous report in which the compound
solar system was proposed to meet the wide temperature range of hot
water supply demand of **dairy farming** households, with a **digital**
simulation showing its high efficiency. This report deals with the
actual operation of the heat collection and storing system in a
reduced scale, which demonstrated the high system efficiency and made it
possible to establish the method of estimating the amount of solar
radiation for efficient system operation.

DESCRIPTORS: solar thermal application; solar energy; heat storage; hot
water supply; digital simulation; improvement of efficiency; flux of
solar radiation; thermal receiver; rural building

BROADER DESCRIPTORS: utilization; energy resource; resource; natural energy
; energy; storage and accumulation; supply; simulation; modification;
building; structure (construction)

CLASSIFICATION CODE(S): QE05020H; RB06020G

12/5/67 (Item 1 from file: 98)

DIALOG(R) File 98:General Sci Abs/Full-Text

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04032934 H.W. WILSON RECORD NUMBER: BGS199032934 (USE FORMAT 7 FOR
FULLTEXT)

A nose for business.

AUGMENTED TITLE: Cyranose 2000 electronic nose

Greenberg, Ilan

Technology Review (Cambridge, Mass.: 1998) v. 102 no4 (July/Aug. 1999) p.
62-7

SPECIAL FEATURES: il por ISSN: 1099-274X

LANGUAGE: English

COUNTRY OF PUBLICATION: United States

RECORD TYPE: Abstract; Fulltext RECORD STATUS: Corrected or revised
record

WORD COUNT: 2576

ABSTRACT: The entrepreneurs behind the Cyranose 2000 are now facing the
daunting task of inventing a market for their product. Cyrano Sciences'
handheld odor detector is the brainchild of Nathan Lewis, a chemist at the
California Institute of Technology, who began to ponder the workings of the
human nose in 1993. With the \$5,000 Cyranose 2000 expected to be launched
this fall, Cyrano Sciences is keen to test the water in two trial markets:
detecting unwanted odors in packaging materials and quality control testing
of raw materials. The Cyranose 2000 is likely to come up against stiff
opposition from both analytical instruments and human noses. With many
companies reluctant to employ new technologies, Cyrano Sciences has decided
to target the major industrial players.

DESCRIPTORS:

Biosensors; Artificial nose

COMPANY NAME: Cyrano Sciences Inc

NAMED PERSONS: Sunshine, Steven

12/5/68 (Item 1 from file: 144)

DIALOG(R) File 144:Pascal

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11580293 PASCAL No.: 94-0466038

Analysis of activity measurement for accurate oestrus detection in dairy cattle

KOELSCH R K; ANESHANSLEY D J; BUTLER W R

Cornell univ., dep. agricultural biological eng., Ithaca NY 14853, USA

Journal: Journal of agricultural engineering research, 1994, 58 (2)

107-114

ISSN: 0021-8634 CODEN: JAERA2 Availability: INIST-4708;

354000046382510040

No. of Refs.: 26 ref.

Document Type: P (Serial) ; A (Analytic)

Country of Publication: United Kingdom

Language: English

English Descriptors: Estrus; Detection; Accuracy; Measurement method;
Biochemical analysis; Biological activity; Animal activity; Cow; LH;
Electronic pedometer; Dairy cattle

Broad Descriptors: Ox; Artiodactyla; Ungulata; Mammalia; Vertebrata; Sexual
reproduction; Instruments; Methodology; Bovine; Farming animal; Ruminant
animal; Hormone; **Electronic equipment; Dairy farming**; Boeuf;
Artiodactyla; Ungulata; Mammalia; Vertebrata; Reproduction sexuee;
Instrumentation; Methodologie; Bovin; Animal elevage; Animal ruminant;
Hormone; Appareillage electronique; Production lait; Buey; Artiodactyla;
Ungulata; Mammalia; Vertebrata; Reproduccion sexual; Instrumentacion;
Metodologia; Bovino; Animal cria; Animal rumiante; Hormona; Equipo
electronico; Produccion lechera

French Descriptors: Oestrus; Detection; Precision; Methode mesure; Analyse
biochimique; Activite biologique; Activite animale; Vache; LH; Pedometre
electronique; Bovin laitier

Classification Codes: 002A36C03

12/5/69 (Item 1 from file: 203)

DIALOG(R) File 203:AGRIS

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02421787 AGRIS No: 2001-009246

**Control of reproductive disorder and monitoring of herd health programme
for improvement of dairy production in Thailand: I. Survey of data base of
dairy farming at Ratchaburi and Nakhon Pathom (Kan chatkan rabop supphan
lae programme kan tittam sukhaphap khong khonom phua prapprung kan phalit
namnom nai Prathet Thai: 1. Kan samruat khomun phunthan kieokap khonom thi
liang boriwen Changwat Ratchaburi lae Nakhon Pathom)**

Humbert, Marie Jean; Peerasak Chantaraprateep; Samphan Singhajan
(Institute d' Elevage et de Medecine Veterinaire des Pays Tropicaux
(France))

Conference Title: 1. D.P.O. Annual Conference

Conference Location and Year: Nakhon Ratchasima (Thailand), 28-29 Aug
1995

**1. D.P.O. annual conference: The dairy technology application (Kan
sammana wan wichakan khonom O-So-Kho khrang thi 1: Prayuk wichakan khonom
su lokaphiwat)**

Dairy Farming Promotion Organization of Thailand, Saraburi (Thailand)

Publisher: , Saraburi (Thailand), 1995, 338 p., p. 13-34

Notes: 5 ill.; 8 tables

Language: English Summary Language: English, Thai

Place of Publication: Thailand
Availability: Thailand Center
Document Type: Analytic, Monograph, Summary, Conference,
Nonconventional Literature

Journal Announcement: 2703 Record input by Thailand

Artificial insemination has helped improving dairy cattle in Thailand since 1956. However, several problems remain to be investigated then solving and prevention can not be made due to lack of data base. The present study was aimed at using questionnaire to survey data base of dairy farming and factors involved in Ratchaburi and Nakhon Pathom provinces. Stratified sampling was performed, 20 percent of the target populations was chosen, 294 farms and 2,289 heads of dairy cow including heifers which had been inseminated at least once. Three forms of questionnaires were used, the first one was general characteristic of the farm to be questioned, it dealt with rearing system, feed and feeding, reproduction and pathology. The second form was about the composition of the herd as a whole including condition of individual animal. And the third one dealt with breeding record of each individual cow and heifer and fertility, fecundity, prolificity and abortion rate were computed. In addition, 2 blood samples were collected from each cow, one for serology survey of reproductive diseases, the other blood sample was investigated for haematology and blood parasites. All the data were computerized, the findings revealed characteristic of dairy farming, reproductive performance, etc. which will be very beneficial for further investigation.

Descriptors in English: *DAIRY COWS; *ANIMAL HOUSING; *FEEDS; *
REPRODUCTION; *ANIMAL HEALTH; BOVIDAE; BOVINAE; CATTLE; COWS; DAIRY
CATTLE; DOMESTIC ANIMALS; LIVESTOCK; MAMMALS; PHYSIOLOGICAL FUNCTIONS;
RUMINANTS; USEFUL ANIMALS;

Section Headings: L53 (ANIMAL PRODUCTION -- Animal physiology -
reproduction)

12/5/70 (Item 2 from file: 203)

DIALOG(R)File 203:AGRIS

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01828905 AGRIS No: 95-005761

**Latest developments of automated animal identification in dairy
farming (Entwicklungsstand der automatisierten Tiererkennung in der
Milchviehhaltung)**

Pirkelmann, H. (Bayerische Landesanstalt fuer Landtechnik, Freising
(Germany))

Journal: Milchpraxis, 1993, v. 31(3) p. 134-138

Notes: 8 ill. ISSN: 0343-0200

Language: German Summary Language: German

Place of Publication: Germany

Document Type: Journal Article, Summary

Journal Announcement: 2101 Record input by Germany

Descriptors in English: *DAIRY COWS; *IDENTIFICATION; *ELECTRONICS;
ARTIODACTYLA; BOVIDAE; BOVINAE; CATTLE; COWS; DAIRY CATTLE; DOMESTIC
ANIMALS; LIVESTOCK; MAMMALS; PHYSICS; RUMINANTS; USEFUL ANIMALS;

Identifiers in German

Identifiers: Transponder

Section Headings: L01 (ANIMAL PRODUCTION -- Animal husbandry) ; N01
(MACHINERY AND BUILDINGS -- Agricultural engineering)

12/5/71 (Item 3 from file: 203)

DIALOG(R)File 203:AGRIS

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01478093 AGRIS No: 90-131543

Use of electronic equipments in dairy cattle farm] (

Elektronikeinsatz im milchviehhaltenden Betrieb)

Grimm, W. (Hohenheim Univ., Stuttgart (Germany, F.R.). Inst. fuer Tierhaltung und Tierzuechtung. Fachgebiet Milcherzeugung)
Conference Title: Elektronikeinsatz in der Tierhaltung, Kolloquium
Conference Location and Year: Braunschweig-Voelkenrode (Germany, F.R.)
8-9 Dec 1987
Journal: Landbauforschung Voelkenrode. Sonderheft, 1988, (no.93) p. 154-159
Notes: 1 ill. ISSN: 0376-0723
Language: German
Place of Publication: Germany, F.R.
Document Type: Journal Article, Conference
Journal Announcement: 1612 Record input by Germany
Abstract in Deutsch
Die Zielsetzung vollautomatisierter Systeme in milcherzeugenden Betrieben wird definiert.

Descriptors in English: *DAIRY CATTLE; *COWS; *COMPUTER APPLICATIONS; *MILK PRODUCTION; ELECTRONICS; AUTOMATION; AGRICULTURAL DEVELOPMENT; AGRICULTURE; ANIMAL PRODUCTION; ANIMALS; ARTIODACTYLA; BOVIDAE; BOVINAE; CATTLE; DOMESTIC ANIMALS; ELECTRICITY; ENERGY; ENERGY SOURCES; FEMALE ANIMALS; LIVESTOCK; MAMMALS; MEAT ANIMALS; MILK YIELDING ANIMALS; NATURAL RESOURCES; PHYSICS; PRODUCTION; RESOURCES; RUMINANTS; SKIN PRODUCING ANIMALS; VERTEBRATES;

Identifiers in German

Identifiers: RIND

Section Headings: L01 (ANIMAL PRODUCTION -- Animal husbandry) ; N01 (MACHINERY AND BUILDINGS -- Agricultural engineering)

12/5/72 (Item 4 from file: 203)

DIALOG(R) File 203:AGRIS

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01382803 AGRIS No: 89-120954

Organization and function of electronic data processing systems in dairy farming demonstrated by the example of a "cow planner"] (Aufbau und Funktion von EDV-Systemen in der Milchviehhaltung am Beispiel eines "Kuhplaners")

Meermann, A. (Tierärztliche Hochschule Hannover (Germany, F.R.). Klinik fuer Rinderkrankheiten im Richard-Goetze-Haus)

Conference Title: Deutscher Tierärztetag und BpT-Kongress
[Bundesverband praktischer Tierärzte e.V.]. Fortbildungsveranstaltung "Rinder"

Conference Location and Year: Aachen (Germany, F.R.), 7-10 Sep 1988
Journal: Praktische Tierarzt, Spec. no.: Collegium veterinarium, 1989, v. 70 p. 5-8

Notes: 3 graphs; 7 ref ISSN: 0032-681X

Language: German Summary Language: German

Place of Publication: Germany, F.R.

Document Type: Journal Article, Conference, Summary

Journal Announcement: 1510 Record input by Germany

Descriptors in English: *DAIRY CATTLE; *COWS; *FEEDS; *ANIMAL FEEDING; *COMPUTER APPLICATIONS; ANIMAL PRODUCTION; AGRICULTURE; ANIMALS; ARTIODACTYLA; BOVIDAE; BOVINAE; CATTLE; DOMESTIC ANIMALS; FEEDING; FEMALE ANIMALS; LIVESTOCK; MAMMALS; MEAT ANIMALS; MILK YIELDING ANIMALS; NUTRITION; PRODUCTION; RUMINANTS; SKIN PRODUCING ANIMALS; VERTEBRATES; ZOOTECHNY;

Section Headings: L02 (ANIMAL PRODUCTION -- Animal feeding)

12/5/73 (Item 5 from file: 203)

DIALOG(R) File 203:AGRIS

Dist by NAL, Intl Copr. All rights reserved. All rts. reserv.

01214150 AGRIS No: 87-066516

Continual eco-pathological survey: 1. Clinical automated checkup in bovine dairy farms : a system for objectivation of sanitary problems (Enquete eco-pathologique continue: 2. Le bilan automatise de pathologie clinique en elevage laitier: un systeme d'objectivation des problemes sanitaires (Resume))

Barnouin, J. (Institut National de la Recherche Agronomique, Ceyrat (France). Centre de Theix, Laboratoire d'Ecopathologie); Bouvier, A.
Journal: Annales de Recherches Veterinaires, 1986, v. 17(3) p. 231-232
Notes: Summary only ISSN: 0003-4193 Notes: Summary only
Language: French, English
Place of Publication: France
Document Type: Journal Article, Summary
Journal Announcement: 1307 Record input by France

Descriptors in English: *DAIRY CATTLE; *PATHOLOGY; *PAYS DE LA LOIRE;
COWS; CALVES; SURVEYS; ANIMAL HEALTH; ANIMALS; ARTIODACTYLA; BOVIDAE;
BOVINES; CATTLE; DOMESTIC ANIMALS; EUROPE; FEMALE ANIMALS; FRANCE;
LIVESTOCK; MAMMALS; MEAT ANIMALS; MILK YIELDING ANIMALS; RUMINANTS; SKIN
PRODUCING ANIMALS; VERTEBRATES; WESTERN EUROPE; YOUNG ANIMALS;
Section Headings: L70 (ANIMAL PRODUCTION -- Veterinary science and hygiene)

12/5/74 (Item 6 from file: 203)

DIALOG(R)File 203:AGRIS

Dist by NAL, Intl Copr. All rights reserved. All rts. reserv.

01042269 AGRIS No: 85-015489

Fully automated dairy farming computerization of cow feeding (Automatisation integrale dans l'exploitation laitiere)

Loocke, E. van (Rijksuniversiteit, Gent (Belgium). Lab. voor Landbouwtechniek)
Journal: Agro, 1982, v. 1(1) p. 39-48
Notes: 2 illus.; 1 table; 9 ref.
Language: French Summary Language: English, French
Place of Publication: Belgium
Availability: Institut Agricole du Hainaut, 11 rue P. Pasture, B-7800 Ath (Belgium)
Document Type: Journal Article, Summary, Nonconventional Literature
Journal Announcement: 1102 Record input by CEC (Commission of European Communities)
Descriptors: Dairy cattle; Animal production equipment
Section Headings: L30 (ANIMAL PRODUCTION -- Animal nutrition) ; E15 (ECONOMICS, DEVELOPMENT, AND RURAL SOCIOLOGY -- Farm organization and management) ; U10 (AUXILIARY DISCIPLINES -- Mathematics and statistics)

12/5/75 (Item 7 from file: 203)

DIALOG(R)File 203:AGRIS

Dist by NAL, Intl Copr. All rights reserved. All rts. reserv.

01039495 AGRIS No: 85-010491

Informatics and agriculture computerized farm management (L'informatique et l'agriculture)

Lietard, H.P. (Institut Provincial d'Enseignement Superieur Agricole et Technique, Ath (Belgium))
Journal: Agro, 1982, v. 1(1) p. 49-50
Language: French
Place of Publication: Belgium
Availability: Institut Agricole du Hainaut, 11 rue P. Pasture, B-7800 Ath (Belgium)
Document Type: Journal Article, Nonconventional Literature
Journal Announcement: 1102 Record input by CEC (Commission of

European Communities)
Descriptors: Machinery & equipment - other
Section Headings: E15 (ECONOMICS, DEVELOPMENT, AND RURAL SOCIOLOGY --
Farm organization and management) ; U10 (AUXILIARY DISCIPLINES --
Mathematics and statistics)

12/5/76 (Item 8 from file: 203)

DIALOG(R) File 203:AGRIS

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00854659 AGRIS No: 794897

Computerized management of a dairy cattle farm in France] (
Gestione computerizzata di un allevamento di bovine lattifere in Francia)
Louvard, G.

Journal: Selezione Veterinaria, Dec 1981, v. 22(12) p. 1267

Notes: Reprinted from: Elevage, edition bovin, (1980) v. 94(57)

ISSN: 0037-1521

Language: Italian

Place of Publication: Italy

Document Type: Journal Article,

Journal Announcement: 0808 Record input by CEC (Commission of
European Communities)

Descriptors: Dairy cattle; France

Section Headings: N20 (MACHINERY AND BUILDINGS -- Farm equipment) ; L00
(ANIMAL PRODUCTION)

12/5/77 (Item 1 from file: 434)

DIALOG(R) File 434:SciSearch(R) Cited Ref Sci

(c) 1998 Inst for Sci Info. All rts. reserv.

09622285 Genuine Article#: AF924 Number of References: 10

**Title: DAIRY-COW DISPOSAL RATES FROM COMMERCIAL DAIRY FARMS
PARTICIPATING IN THE DAIRYMIS-II COMPUTERIZED MANAGEMENT
INFORMATION-SYSTEM IN IRELAND**

Author(s): CROSSE S; ODOOVAN S

Corporate Source: MOOREPARK RES CTR, DEPT DAIRY HUSB/CORK//IRELAND//; NATL
UNIV IRELAND UNIV COLL CORK, DEPT AGR/CORK//IRELAND/

Journal: IRISH VETERINARY JOURNAL, 1989, V42, N6-7, P75-78

Language: ENGLISH Document Type: ARTICLE

Geographic Location: IRELAND

Subfile: SciSearch; Scisearch; CC AGRI--Current Contents, Agriculture,
Biology & Environmental Sciences

Journal Subject Category: VETERINARY MEDICINE

Cited References:

22 REP BREED PROD OR, 1972, P122
ALLAIRE FR, 1977, V60, P254, J DAIRY SCIENCE
BEYNON VH, 1974, 192 U EX AGR EC UN
CROSSE S, 1985, P326, ANIMAL HLTH MACHINE
FINGLETON WA, 1983, P35, P C ADJUSTMENT STRUC
GARTNER JA, 1983, V139, P513, BRIT VET J
OCONNOR LK, 1963, V5, P165, ANIMAL PRODUCTION
WALSH JP, 1983, P15, MILK PRODUCTION SEMI
WALSH JP, 1985, P114, MILK PRODUCTION SEMI
YOUNG GB, 1983, V113, P107, VET REC

12/5/78 (Item 2 from file: 434)

DIALOG(R) File 434:SciSearch(R) Cited Ref Sci

(c) 1998 Inst for Sci Info. All rts. reserv.

07651049 Genuine Article#: E8254 Number of References: 0

**Title: CLINICAL AUTOMATED CHECK-UP IN BOVINE DAIRY FARMS - A SYSTEM
FOR OBJECTIVATION OF SANITARY PROBLEMS**

Author(s): BARNOUIN J; BOUVIER A
Corporate Source: INRA,CTR RECH ZOOTECH & VET THEIX,ECOPATHOL LAB/F-63122
CEYRAT//FRANCE/; INRA,CNRZ,BIOMETRIE LAB/F-78350 JOUY EN JOSAS//FRANCE/
Journal: ANNALES DE RECHERCHES VETERINAIRES, 1986, V17, N3, P231-232
Language: FRENCH Document Type: ARTICLE
Geographic Location: FRANCE
Subfile: SciSearch; CC AGRI--Current Contents, Agriculture, Biology &
Environmental Sciences
Journal Subject Category: VETERINARY MEDICINE

12/5/79 (Item 3 from file: 434)

DIALOG(R) File 434:SciSearch(R) Cited Ref Sci
(c) 1998 Inst for Sci Info. All rts. reserv.

02408118 Genuine Article#: GF974 Number of References: 0

**Title: USING COMPUTERIZED RATION BALANCING TO ASSIST DAIRY FARM
OPERATORS DURING A DROUGHT EMERGENCY**

Author(s): HOWARD WT; NEHRING D; WOLLENZIEN A; HENDRICKSON S; DROST D;
OLSON D

Corporate Source: UNIV WISCONSIN/MADISON//WI/53706

Journal: JOURNAL OF DAIRY SCIENCE, 1978, V61, S1, P194-195

Language: ENGLISH Document Type: MEETING ABSTRACT

Geographic Location: USA

Subfile: SciSearch; CC AGRI--Current Contents, Agriculture, Biology &
Environmental Sciences

Journal Subject Category: FOOD SCIENCE & TECHNOLOGY; AGRICULTURE, DAIRY &
ANIMAL SCIENCE

File 348:EUROPEAN PATENTS 1978-2003/Aug W04

(c) 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20030828,UT=20030821

(c) 2003 WIPO/Univentio

?ds

Set	Items	Description
S1	290	(DAIRY OR AGRICULTUR?) (1W) (FARM OR FARMS OR FARMING? OR FA- RMLAND? OR PHARM? ? OR PHARMING?)
S2	6	S1(5N) (AUTOMATE? OR COMPUTERI? OR DIGITI? OR DIGITAL? OR E- LECTRONIC)
S3	5	S2(5N) (MONITOR? OR CONTROL? OR DETERMIN? OR ASSESS? OR DIA- GNOS? OR ANALYZ? OR ANALYS? OR EVALUAT? OR MEASUR?)
S4	1	S2(5N) (GRAPHIC? ? OR GUI OR GRAPHICAL()USER()INTERFACE? ? - OR ICON OR ICONS OR DISPLAY? ? OR ANIMATION? OR IMAGE? OR GIF OR JPEG OR PICTURE? ? OR SYMBOL? ? OR SCHEMATIC? OR ROBOT?)
S5	1	S2(5N) (PHYSICAL()PROPERT? OR LOCATION? OR SIZE? ? OR SHAPE? ? OR COLOR? ? OR DIRECTION? OR MOVEMENT? OR FREQUENC?)

2/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

00759769

**METHOD FOR MONITORING AND CONTROLLING MILK PRODUCTION AT DAIRY FARMS
VERFAHREN ZUM UBERWACHEN UND REGELN DER MILCHLEISTUNG IN EINER MILCHFARM
PROCEDE DE SURVEILLANCE ET DE GESTION DE LA PRODUCTION LAITIERE DANS LES
FERMES LAITIERES**

PATENT ASSIGNEE:

LA FEDERATION FRANCAISE DE CONTROLE LAITIER (F.F.C.L.), (1820310), 149
rue de Bercy, F-75595 Paris Cedex 12, (FR), (Proprietor designated
states: all)

INVENTOR:

BAZIN, Serge, 36 bis, rue Dunois, F-75013 Paris, (FR)
BECHU, Andre, Montembourg, F-53500 Saint-Pierre-des-Landes, (FR)

LEGAL REPRESENTATIVE:

Vuillermoz, Bruno et al (72791), Cabinet Laurent & Charras B.P. 32 20,
rue Louis Chirpaz, 69131 Ecully Cedex, (FR)

PATENT (CC, No, Kind, Date): EP 721297 A1 960717 (Basic)
EP 721297 B1 010912
WO 9603859 960215

APPLICATION (CC, No, Date): EP 95927074 950801; WO 95IB679 950801

PRIORITY (CC, No, Date): EP 94490036 940801

DESIGNATED STATES: CH; DE; DK; FR; GB; LI; NL

INTERNATIONAL PATENT CLASS: A01J-005/017; A01J-005/04

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200137	928
CLAIMS B	(German)	200137	900
CLAIMS B	(French)	200137	1122
SPEC B	(English)	200137	7743
Total word count - document A			0
Total word count - document B			10693
Total word count - documents A + B			10693

...SPECIFICATION qualitative analysis management functions of the inventive system for monitoring and controlling milk production at **dairy farms**. In this fully **automated** system sets of quantitative and qualitative analysis modules are connected by a dual optical and...the inventive system intended to partially automate the quantitative and qualitative analysis and management of **dairy farm** milk production. This semi-**automated** system includes both an analyzer and electronic meters although the analyzer and meter modules are...
...set-up and again at the time of removal of the equipment from an individual **dairy farm** where the semi-**automated** system has been at least temporarily installed. In this system, any dairy control agent must
...

2/3,K/2 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00784206 **Image available**

**GRAPHICAL USER INTERFACE AND METHOD RELATED THERETO
INTERFACE UTILISATEUR GRAPHIQUE ET PROCEDE ASSOCIE**

Patent Applicant/Assignee:

DELAVAL HOLDING AB, Box 39, S-147 21 Tumba, SE, SE (Residence), SE
(Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

RUDA Fredrik, Odlingsvagen 18, S-147 50 Tumba, SE, SE (Residence), SE

(Nationality), (Designated only for: US)
Legal Representative:
FRITZON Rolf (et al) (agent), Kransell & Wennborg AB, Box 27834, S-115 93
Stockholm, SE,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200117336 A1 20010315 (WO 0117336)
Application: WO 2000SE1674 20000831 (PCT/WO SE0001674)
Priority Application: SE 993112 19990903
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG
SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 4048

Fulltext Availability:
Detailed Description

Detailed Description

... there-to, for enabling a human user to monitor and/or control a
computer controlled **dairy farm** activity such as for instance
automated or semi-automated machine milking.

DESCRIPTION OF RELATED ART AND BACKGROUND OF THE INVENTION...

...a part used for infrequent operation and maintenance
activities, or the like.

Consequently, in an **automated dairy farm** there is an urgent need
of a graphical user interface for controlling various activities,
which...present invention is to be employed for communication
between a human user and an arbitrary **computerized dairy farm**
system, it will mainly be described in relation to a milking
machine system, which typically...

...the relation between two
things; in the present case the graphical user interface and the
automated dairy farm system, e.g. the milking machine. Natural
mapping means that this relation should be natural...

2/3,K/3 (Item 2 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

00576205 **Image available**

METHOD AND APPARATUS FOR ESTIMATION OF A CELL COUNT IN A BODY FLUID PROCEDE ET APPAREIL PERMETTANT D'ESTIMER LE NOMBRE DE CELLULES PRESENTES DANS UN LIQUIDE ORGANIQUE

Patent Applicant/Assignee:

FOSS ELECTRIC A S,
RIDDER Carsten,
NYGAARD Lars,

Inventor(s):

RIDDER Carsten,
NYGAARD Lars,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200039578 A2 20000706 (WO 0039578)
Application: WO 99DK725 19991221 (PCT/WO DK9900725)
Priority Application: DK 981721 19981223

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ
MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ
CF CG CI CM GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 4829

Fulltext Availability:

Detailed Description

Detailed Description

... Italy, August 29. - September 1. 1994; pp 1120-1127.

"NIR spectroscopy: a new technology for **automated** control on **dairy farm**" (R N Tsenkova, K. 1.

Yordanov, K. Itoh. J. Matsuda, J. Himoto, M. Natsuga) describes...

2/3,K/4 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00534329 **Image available**

AUTOMATED DEVICES TO CONTROL EQUIPMENT AND MACHINES WITH REMOTE CONTROL AND ACCOUNTABILITY WORLDWIDE

DISPOSITIFS AUTOMATIQUES DE COMMANDE A DISTANCE DE MACHINES ET MATERIELS DE COMMANDE, UTILISABLES MONDIALEMENT

Patent Applicant/Assignee:

KLINE & WALKER LLC,

WALKER Richard C,

Inventor(s):

WALKER Richard C,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9965681 A1 19991223

Application: WO 99US13668 19990618 (PCT/WO US9913668)

Priority Application: US 9889783 19980618; WO 99US919 19990115; US

99122108 19990226; US 99139759 19990615; US 99149029 19990617

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CZ DE DK EE ES

FI GB GE GH GM HR HU ID IL IN IS JP KE KG KR KZ LC LK LR LS LT LU LV MD

MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US

UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM

AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM

GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 80582

Fulltext Availability:

Claims

Claim

... said at least one of said plurality of external devices include at least one of **agriculture** and **farming** equipment to be **automated** for remote control, tracking and monitoring including control of equipment from computer operating monitoring systems...

2/3,K/5 (Item 4 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00406442 **Image available**

A SYSTEM AND A METHOD FOR MONITORING THE PHYSICAL CONDITION OF A HERD OF

LIVESTOCK

SYSTEME ET PROCEDE DE SURVEILLANCE DE L'ETAT PHYSIQUE D'UN TROUPEAU DE
BETAIL

Patent Applicant/Assignee:

ALFA LAVAL AGRI AB,
DE MOL Rudolfus Maria,
KEEN Albertus,

Inventor(s):

DE MOL Rudolfus Maria,
KEEN Albertus,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9747187 A1 19971218

Application: WO 96EP2604 19960614 (PCT/WO EP9602604)

Priority Application: WO 96EP2604 19960614

Designated States: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB
GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ
PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN KE LS MW SD SZ UG
AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL
PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 6092

Fulltext Availability:

Detailed Description

Detailed Description

... by

timely identifying animals which are likely to be in heat or
ill, particularly in **dairy farming**, where increasing herd
sizes and **automated** milking systems make it more difficult
10 and cumbersome for farmers to identify these animals...

2/3,K/6 (Item 5 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00321351

SYSTEM AND METHOD FOR MONITORING AND CONTROLLING MILK PRODUCTION AT DAIRY
FARMS

SYSTEME ET PROCEDE DE SURVEILLANCE ET DE GESTION DE LA PRODUCTION LAITIERE
DANS LES FERMES LAITIERES

Patent Applicant/Assignee:

LA FEDERATION FRANCAISE DE CONTROLE LAITIER (F F C L),
BAZIN Serge,
BECHU Andre,

Inventor(s):

BAZIN Serge,
BECHU Andre,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9603859 A1 19960215

Application: WO 95IB679 19950801 (PCT/WO IB9500679)

Priority Application: AT 494490036 19940801

Designated States: AU CA NZ US AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT
SE

Publication Language: English

Fulltext Word Count: 9131

Fulltext Availability:

Detailed Description

Detailed Description

... qualitative analysis management

functions of the inventive system for monitoring and
controlling milk production at **dairy farms**. In this
fully **automated** system sets of quantitative and

2/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

00759769

**METHOD FOR MONITORING AND CONTROLLING MILK PRODUCTION AT DAIRY FARMS
VERFAHREN ZUM UBERWACHEN UND REGELN DER MILCHLEISTUNG IN EINER MILCHFARM
PROCEDE DE SURVEILLANCE ET DE GESTION DE LA PRODUCTION LAITIERE DANS LES
FERMES LAITIERES**

PATENT ASSIGNEE:

LA FEDERATION FRANCAISE DE CONTROLE LAITIER (F.F.C.L.), (1820310), 149
rue de Bercy, F-75595 Paris Cedex 12, (FR), (Proprietor designated
states: all)

INVENTOR:

BAZIN, Serge, 36 bis, rue Dunois, F-75013 Paris, (FR)
BECHU, Andre, Montembourg, F-53500 Saint-Pierre-des-Landes, (FR)

LEGAL REPRESENTATIVE:

Vuillermoz, Bruno et al (72791), Cabinet Laurent & Charras B.P. 32 20,
rue Louis Chirpaz, 69131 Ecully Cedex, (FR)

PATENT (CC, No, Kind, Date): EP 721297 A1 960717 (Basic)
EP 721297 B1 010912
WO 9603859 960215

APPLICATION (CC, No, Date): EP 95927074 950801; WO 95IB679 950801

PRIORITY (CC, No, Date): EP 94490036 940801

DESIGNATED STATES: CH; DE; DK; FR; GB; LI; NL

INTERNATIONAL PATENT CLASS: A01J-005/017; A01J-005/04

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200137	928
CLAIMS B	(German)	200137	900
CLAIMS B	(French)	200137	1122
SPEC B	(English)	200137	7743
Total word count - document A			0
Total word count - document B			10693
Total word count - documents A + B			10693

...SPECIFICATION qualitative analysis management functions of the inventive system for monitoring and controlling milk production at **dairy farms** . In this fully **automated** system sets of quantitative and qualitative analysis modules are connected by a dual optical and...the inventive system intended to partially automate the quantitative and qualitative analysis and management of **dairy farm** milk production. This semi-**automated** system includes both an analyzer and electronic meters although the analyzer and meter modules are...
...set-up and again at the time of removal of the equipment from an individual **dairy farm** where the semi-**automated** system has been at least temporarily installed. In this system, any dairy control agent must
...

2/3,K/2 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

00784206 **Image available**

**GRAPHICAL USER INTERFACE AND METHOD RELATED THERETO
INTERFACE UTILISATEUR GRAPHIQUE ET PROCEDE ASSOCIE**

Patent Applicant/Assignee:

DELAVAL HOLDING AB, Box 39, S-147 21 Tumba, SE, SE (Residence), SE
(Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

RUDA Fredrik, Odlingsvagen 18, S-147 50 Tumba, SE, SE (Residence), SE

(Nationality), (Designated only for: US)
Legal Representative:
FRITZON Rolf (et al) (agent), Kransell & Wennborg AB, Box 27834, S-115 93
Stockholm, SE,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200117336 A1 20010315 (WO 0117336)
Application: WO 2000SE1674 20000831 (PCT/WO SE0001674)
Priority Application: SE 993112 19990903
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG
SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 4048

Fulltext Availability:
Detailed Description

Detailed Description

... there-to, for enabling a human user to monitor and/or control a
computer controlled **dairy farm** activity such as for instance
automated or semi-automated machine milking.

DESCRIPTION OF RELATED ART AND BACKGROUND OF THE INVENTION...

...a part used for infrequent operation and maintenance
activities, or the like.

Consequently, in an **automated dairy farm** there is an urgent need
of a graphical user interface for controlling various activities,
which...present invention is to be employed for communication
between a human user and an arbitrary **computerized dairy farm**
system, it will mainly be described in relation to a milking
machine system, which typically...

...the relation between two
things; in the present case the graphical user interface and the
automated dairy farm system, e.g. the milking machine. Natural
mapping means that this relation should be natural...

2/3,K/3 (Item 2 from file: 349)
DIALOG(R) File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts.reserv.

00576205 **Image available**

METHOD AND APPARATUS FOR ESTIMATION OF A CELL COUNT IN A BODY FLUID PROCEDE ET APPAREIL PERMETTANT D'ESTIMER LE NOMBRE DE CELLULES PRESENTES DANS UN LIQUIDE ORGANIQUE

Patent Applicant/Assignee:

FOSS ELECTRIC A S,
RIDDER Carsten,
NYGAARD Lars,

Inventor(s):

RIDDER Carsten,
NYGAARD Lars,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200039578 A2 20000706 (WO 0039578)
Application: WO 99DK725 19991221 (PCT/WO DK9900725)
Priority Application: DK 981721 19981223

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ
MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ
CF CG CI CM GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 4829

Fulltext Availability:

Detailed Description

Detailed Description

... Italy, August 29. - September 1. 1994; pp 1120-1127.

"NIR spectroscopy: a new technology for **automated** control on **dairy farm** " (R N Tsenkova, K. 1.

Yordanov, K. Itoh. J. Matsuda, J. Himoto, M. Natsuga) describes...

2/3,K/4 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2003 WIPO/Univentio. All rts. reserv.

00534329 **Image available**

AUTOMATED DEVICES TO CONTROL EQUIPMENT AND MACHINES WITH REMOTE CONTROL AND ACCOUNTABILITY WORLDWIDE

DISPOSITIFS AUTOMATIQUES DE COMMANDE A DISTANCE DE MACHINES ET MATERIELS DE COMMANDE, UTILISABLES MONDIALEMENT

Patent Applicant/Assignee:

KLINE & WALKER LLC,

WALKER Richard C,

Inventor(s):

WALKER Richard C,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9965681 A1 19991223

Application: WO 99US13668 19990618 (PCT/WO US9913668)

Priority Application: US 9889783 19980618; WO 99US919 19990115; US

99122108 19990226; US 99139759 19990615; US 99149029 19990617

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CZ DE DK EE ES

FI GB GE GH GM HR HU ID IL IN IS JP KE KG KR KZ LC LK LR LS LT LU LV MD

MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US

UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM

AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM

GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 80582

Fulltext Availability:

Claims

Claim

... said at least one of said plurality of external devices include at least one of **agriculture** and **farming** equipment to be **automated** for remote control, tracking and monitoring including control of equipment from computer operating monitoring systems...

2/3,K/5 (Item 4 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2003 WIPO/Univentio. All rts. reserv.

00406442 **Image available**

A SYSTEM AND A METHOD FOR MONITORING THE PHYSICAL CONDITION OF A HERD OF

LIVESTOCK

SYSTEME ET PROCEDE DE SURVEILLANCE DE L'ETAT PHYSIQUE D'UN TROUPEAU DE BETAAIL

Patent Applicant/Assignee:

ALFA LAVAL AGRI AB,
DE MOL Rudolfus Maria,
KEEN Albertus,

Inventor(s):

DE MOL Rudolfus Maria,
KEEN Albertus,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9747187 A1 19971218

Application: WO 96EP2604 19960614 (PCT/WO EP9602604)

Priority Application: WO 96EP2604 19960614

Designated States: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB
GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ
PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN KE LS MW SD SZ UG
AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL
PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 6092

Fulltext Availability:

Detailed Description

Detailed Description

... by

timely identifying animals which are likely to be in heat or ill, particularly in **dairy farming**, where increasing herd sizes and **automated** milking systems make it more difficult 10 and cumbersome for farmers to identify these animals...

2/3,K/6 (Item 5 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00321351

SYSTEM AND METHOD FOR MONITORING AND CONTROLLING MILK PRODUCTION AT DAIRY FARMS

SYSTEME ET PROCEDE DE SURVEILLANCE ET DE GESTION DE LA PRODUCTION LAITIERE DANS LES FERMES LAITIERES

Patent Applicant/Assignee:

LA FEDERATION FRANCAISE DE CONTROLE LAITIER (F F C L),
BAZIN Serge,
BECHU Andre,

Inventor(s):

BAZIN Serge,
BECHU Andre,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9603859 A1 19960215

Application: WO 95IB679 19950801 (PCT/WO IB9500679)

Priority Application: AT 494490036 19940801

Designated States: AU CA NZ US AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT
SE

Publication Language: English

Fulltext Word Count: 9131

Fulltext Availability:

Detailed Description

Detailed Description

... qualitative analysis management

functions of the inventive system for monitoring and controlling milk production at **dairy farms**. In this fully **automated** system sets of quantitative and

qualitative analysis modules are connected by a dual optical and...the inventive system intended to partially automate the quantitative and qualitative analysis and management of **dairy farm** milk production. This semi- **automated** system includes both an analyzer and electronic meters although the analyzer and meter modules are...

...up and again at the time of removal of the equipment from an individual **dairy farm** where the semi- **automated** system has been at least temporarily installed. In this system any dairy control agent must...

?ds

Set	Items	Description
S1	290	(DAIRY OR AGRICULTUR?)(1W)(FARM OR FARMS OR FARMING? OR FA- RMLAND? OR PHARM? ? OR PHARMING?)
S2	6	S1(5N)(AUTOMATE? OR COMPUTERI? OR DIGITI? OR DIGITAL? OR E- LECTRONIC)
S3	5	S2(5N)(MONITOR? OR CONTROL? OR DETERMIN? OR ASSESS? OR DIA- GNOS? OR ANALYZ? OR ANALYS? OR EVALUAT? OR MEASUR?)
S4	1	S2(5N)(GRAPHIC? ? OR GUI OR GRAPHICAL()USER()INTERFACE? ? - OR ICON OR ICONS OR DISPLAY? ? OR ANIMATION? OR IMAGE? OR GIF OR JPEG OR PICTURE? ? OR SYMBOL? ? OR SCHEMATIC? OR ROBOT?)
S5	1	S2(5N)(PHYSICAL()PROPERT? OR LOCATION? OR SIZE? ? OR SHAPE? ? OR COLOR? ? OR DIRECTION? OR MOVEMENT? OR FREQUENC?)

?t s3/3,k/all

3/3,K/1 (Item 1 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00759769

**METHOD FOR MONITORING AND CONTROLLING MILK PRODUCTION AT DAIRY FARMS
VERFAHREN ZUM UBERWACHEN UND REGELN DER MILCHLEISTUNG IN EINER MILCHFARM
PROCEDE DE SURVEILLANCE ET DE GESTION DE LA PRODUCTION LAITIERE DANS LES
FERMES LAITIERS**

PATENT ASSIGNEE:

LA FEDERATION FRANCAISE DE CONTROLE LAITIER (F.F.C.L.), (1820310), 149
rue de Bercy, F-75595 Paris Cedex 12, (FR), (Proprietor designated
states: all)

INVENTOR:

BAZIN, Serge, 36 bis, rue Dunois, F-75013 Paris, (FR)
BECHU, Andre, Montembourg, F-53500 Saint-Pierre-des-Landes, (FR)

LEGAL REPRESENTATIVE:

Vuillermoz, Bruno et al (72791), Cabinet Laurent & Charras B.P. 32 20,
rue Louis Chirpaz, 69131 Ecully Cedex, (FR)

PATENT (CC, No, Kind, Date): EP 721297 A1 960717 (Basic)

EP 721297 B1 010912

WO 9603859 960215

APPLICATION (CC, No, Date): EP 95927074 950801; WO 951B679 950801

PRIORITY (CC, No, Date): EP 94490036 940801

DESIGNATED STATES: CH; DE; DK; FR; GB; LI; NL

INTERNATIONAL PATENT CLASS: A01J-005/017; A01J-005/04

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Appplication): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200137	928
CLAIMS B	(German)	200137	900
CLAIMS B	(French)	200137	1122
SPEC B	(English)	200137	7743
Total word count - document A			0

Total word count - document B 10693
Total word count - documents A + B 10693

...SPECIFICATION fully to automate the quantitative and qualitative analysis management functions of the inventive system for **monitoring** and **controlling** milk production at **dairy farms**. In this fully **automated** system sets of quantitative and qualitative analysis modules are connected by a dual optical and...parts and functions of the inventive system intended to partially automate the quantitative and qualitative **analysis** and management of **dairy farm** milk production. This semi- **automated** system includes both an **analyzer** and electronic meters although the analyzer and meter modules are no longer connected by a...

3/3,K/2 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

00784206 **Image available**

GRAPHICAL USER INTERFACE AND METHOD RELATED THERETO
INTERFACE UTILISATEUR GRAPHIQUE ET PROCEDE ASSOCIE

Patent Applicant/Assignee:

DELAVAL HOLDING AB, Box 39, S-147 21 Tumba, SE, SE (Residence), SE
(Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

RUDA Fredrik, Odlingsvagen 18, S-147 50 Tumba, SE, SE (Residence), SE
(Nationality), (Designated only for: US)

Legal Representative:

FRITZON Rolf (et al) (agent), Kransell & Wennborg AB, Box 27834, S-115 93
Stockholm, SE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200117336 A1 20010315 (WO 0117336)

Application: WO 2000SE1674 20000831 (PCT/WO SE0001674)

Priority Application: SE 993112 19990903

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG

SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4048

Fulltext Availability:

Detailed Description

Detailed Description

... and a method related

there-to, for enabling a human user to monitor and/or **control** a
computer **controlled dairy farm** activity such as for instance
automated or semi-automated machine milking.

DESCRIPTION OF RELATED ART AND BACKGROUND OF THE INVENTION...

3/3,K/3 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

00576205 **Image available**

METHOD AND APPARATUS FOR ESTIMATION OF A CELL COUNT IN A BODY FLUID

**PROCEDE ET APPAREIL PERMETTANT D'ESTIMER LE NOMBRE DE CELLULES PRESENTES
DANS UN LIQUIDE ORGANIQUE**

Patent Applicant/Assignee:

FOSS ELECTRIC A S,
RIDDER Carsten,
NYGAARD Lars,

Inventor(s):

RIDDER Carsten,
NYGAARD Lars,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200039578 A2 20000706 (WO 0039578)

Application: WO 99DK725 19991221 (PCT/WO DK9900725)

Priority Application: DK 981721 19981223

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE

ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT

LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT

UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ

MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ

CF CG CI CM GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 4829

Fulltext Availability:

Detailed Description

Detailed Description

... Italy, August 29. - September 1. 1994; pp 1120-1127.

"NIR spectroscopy: a new technology for **automated control on dairy farm**" (R N Tsenkova, K. 1.

Yordanov, K. Itoh. J. Matsuda, J. Himoto, M. Natsuga) describes...

3/3,K/4 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2003 WIPO/Univentio. All rts. reserv.

00534329 **Image available**

**AUTOMATED DEVICES TO CONTROL EQUIPMENT AND MACHINES WITH REMOTE CONTROL AND
ACCOUNTABILITY WORLDWIDE**

**DISPOSITIFS AUTOMATIQUES DE COMMANDE A DISTANCE DE MACHINES ET MATERIELS DE
COMMANDE, UTILISABLES MONDIALEMENT**

Patent Applicant/Assignee:

KLINE & WALKER LLC,
WALKER Richard C,

Inventor(s):

WALKER Richard C,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9965681 A1 19991223

Application: WO 99US13668 19990618 (PCT/WO US9913668)

Priority Application: US 9889783 19980618; WO 99US919 19990115; US

99122108 19990226; US 99139759 19990615; US 99149029 19990617

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CZ DE DK EE ES

FI GB GE GH GM HR HU ID IL IN IS JP KE KG KR KZ LC LK LR LS LT LU LV MD

MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US

UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ UG ZW AM AZ BY KG KZ MD RU TJ TM

AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM

GA GN GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 80582

Fulltext Availability:

Claims

Claim

... said at least one of said plurality of external devices include at least one of **agriculture** and **farming** equipment to be **automated** for remote **control**, tracking and **monitoring** including control of equipment from computer operating monitoring systems and networks for cultivating and harvesting...

3/3,K/5 (Item 4 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2003 WIPO/Univentio. All rts. reserv.

00321351

SYSTEM AND METHOD FOR MONITORING AND CONTROLLING MILK PRODUCTION AT DAIRY FARMS

SYSTEME ET PROCEDE DE SURVEILLANCE ET DE GESTION DE LA PRODUCTION LAITIERE DANS LES FERMES LAITIERES

Patent Applicant/Assignee:

LA FEDERATION FRANCAISE DE CONTROLE LAITIER (F F C L),

BAZIN Serge,

BECHU Andre,

Inventor(s):

BAZIN Serge,

BECHU Andre,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9603859 A1 19960215

Application: WO 95IB679 19950801 (PCT/WO IB9500679)

Priority Application: AT 494490036 19940801

Designated States: AU CA NZ US AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 9131

Fulltext Availability:

Detailed Description

Detailed Description

... fully to automate the quantitative and qualitative analysis management functions of the inventive system for **monitoring** and controlling milk production at **dairy farms**. In this fully **automated** system sets of quantitative and qualitative analysis modules are connected by a dual optical and...parts and functions of the inventive system intended to partially automate the quantitative and qualitative **analysis** and management of **dairy farm** milk production. This semi- **automated** system includes both an **analyzer** and electronic meters although the analyzer and meter modules are no longer connected by a...

4/3,K/1 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

00784206 **Image available**

GRAPHICAL USER INTERFACE AND METHOD RELATED THERETO
INTERFACE UTILISATEUR GRAPHIQUE ET PROCEDE ASSOCIE

Patent Applicant/Assignee:

DELAVAL HOLDING AB, Box 39, S-147 21 Tumba, SE, SE (Residence), SE
(Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

RUDA Fredrik, Odlingssvagen 18, S-147 50 Tumba, SE, SE (Residence), SE
(Nationality), (Designated only for: US)

Legal Representative:

FRITZON Rolf (et al) (agent), Kransell & Wennborg AB, Box 27834, S-115 93
Stockholm, SE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200117336 A1 20010315 (WO 0117336)

Application: WO 2000SE1674 20000831 (PCT/WO SE0001674)

Priority Application: SE 993112 19990903

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG

SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4048

Fulltext Availability:

Detailed Description

Detailed Description

... a technical term, which refers the relation between two
things; in the present case the **graphical user interface** and the
automated dairy farm system, e.g. the milking machine. Natural
mapping means that this relation should be natural...

5/3,K/1 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2003 WIPO/Univentio. All rts. reserv.

00406442 **Image available**

A SYSTEM AND A METHOD FOR MONITORING THE PHYSICAL CONDITION OF A HERD OF
LIVESTOCK

SYSTEME ET PROCEDE DE SURVEILLANCE DE L'ETAT PHYSIQUE D'UN TROUPEAU DE
BETAIL

Patent Applicant/Assignee:

ALFA LAVAL AGRI AB,
DE MOL Rudolfus Maria,
KEEN Albertus,

Inventor(s):

DE MOL Rudolfus Maria,
KEEN Albertus,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9747187 A1 19971218

Application: WO 96EP2604 19960614 (PCT/WO EP9602604)

Priority Application: WO 96EP2604 19960614

Designated States: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB

GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ

PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN KE LS MW SD SZ UG

AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL

PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 6092

Fulltext Availability:

Detailed Description

Detailed Description

... by

timely identifying animals which are likely to be in heat or
ill, particularly in **dairy farming**, where increasing herd
sizes and **automated** milking systems make it more difficult
10 and cumbersome for farmers to identify these animals...

File 344:Chinese Patents Abs Aug 1985-2003/Mar
 (c) 2003 European Patent Office
 File 347:JAPIO Oct 1976-2003/Apr(Updated 030804)
 (c) 2003 JPO & JAPIO
 File 350:Derwent WPIX 1963-2003/UD,UM &UP=200355
 (c) 2003 Thomson Derwent

?ds

Set	Items	Description
S1	348	(DAIRY OR AGRICULTUR?) (1W) (FARM OR FARMS OR FARMING? OR FA- RMLAND? OR PHARM? ? OR PHARMING?)
S2	2	S1(5N) (AUTOMATE? OR COMPUTERI? OR DIGITI? OR DIGITAL? OR E- LECTRONIC)
S3	1	S2(5N) (MONITOR? OR CONTROL? OR DETERMIN? OR ASSESS? OR DIA- GNOS? OR ANALYZ? OR ANALYS? OR EVALUAT? OR MEASUR?)
S4	0	S2(5N) (GRAPHIC? ? OR GUI OR GRAPHICAL()USER()INTERFACE? ? - OR ICON OR ICONS OR DISPLAY? ? OR ANIMATION? OR IMAGE? OR GIF OR JPEG OR PICTURE? ? OR SYMBOL? ? OR SCHEMATIC? OR ROBOT?)
S5	0	S2(5N) (PHYSICAL()PROPERT? OR LOCATION? OR SIZE? ? OR SHAPE? ? OR COLOR? ? OR DIRECTION? OR MOVEMENT? OR FREQUENC?)

2/5/1 (Item 1 from file: 350)
DIALOG(R) File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014241182 **Image available**
WPI Acc No: 2002-061882/200208
XRPX Acc No: N02-045968

**Milk sampling apparatus for automated milking system in dairy farm ,
has a vibrating table mounted on a chassis to agitate milk samples
collected in test tubes**

Patent Assignee: DELAVAL HOLDING AB (ALFA); GUDMUNDSSON M (GUDM-I);
MELLBERG S (MELL-I)

Inventor: GUDMUNDSSON M; MELLBERG S

Number of Countries: 095 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200174151	A1	20011011	WO 2001SE678	A	20010328	200208 B
SE 200001197	A	20011004	SE 20001197	A	20000403	200208
AU 200144958	A	20011015	AU 200144958	A	20010328	200209
SE 517144	C2	20020423	SE 20001197	A	20000403	200235
EP 1267609	A1	20030102	EP 2001918089	A	20010328	200310
			WO 2001SE678	A	20010328	
US 20030143748	A1	20030731	WO 2001SE678	A	20010328	200354
			US 2002240394	A	20020930	

Priority Applications (No Type Date): SE 20001197 A 20000403

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
-----------	------	-----	----	----------	--------------

WO 200174151	A1	E	33	A01J-005/04	
--------------	----	---	----	-------------	--

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

SE 200001197	A			A01J-005/04	
--------------	---	--	--	-------------	--

AU 200144958	A			A01J-005/04	Based on patent WO 200174151
--------------	---	--	--	-------------	------------------------------

SE 517144	C2			A01J-005/04	
-----------	----	--	--	-------------	--

EP 1267609	A1	E		A01J-005/04	Based on patent WO 200174151
------------	----	---	--	-------------	------------------------------

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI TR

US 20030143748	A1			G01N-001/00	
----------------	----	--	--	-------------	--

Abstract (Basic): WO 200174151 A1

NOVELTY - Several test tubes (9) for collecting milk samples are provided in a cassette (7) removably placed on a vibrating table (5). A filling unit (27) connected to the milking system, fills the test tubes with milk from animals, and the filled test tubes are sent to laboratory. The vibrating table (5) which agitates milk sample, is mounted on a chassis (3).

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for milk sampling method.

USE - For use with **automated milking system in dairy farm**.

ADVANTAGE - Since a vibrating table agitates the milk samples, the dissolving rate of any preservative added to the milk samples is increased, thereby improving reliability of the sampling apparatus. Effective, fast, accurate, reliable, safe, easy to use and low cost milk sampling apparatus is obtained.

DESCRIPTION OF DRAWING(S) - The figure shows a schematic view of the milk sampling apparatus.

Chassis (3)

Vibrating table (5)

Cassette (7)

Test tubes (9)

Filling unit (27)

pp; 33 DwgNo 1/4

Title Terms: MILK; SAMPLE; APPARATUS; AUTOMATIC; MILK; SYSTEM; DAIRY; FARM;
VIBRATION; TABLE; MOUNT; CHASSIS; AGITATE; MILK; SAMPLE; COLLECT; TEST;
TUBE
Derwent Class: P13; S03; X25
International Patent Class (Main): A01J-005/04; G01N-001/00
International Patent Class (Additional): G01N-033/04
File Segment: EPI; EngPI

2/5/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

014096379 **Image available**

WPI Acc No: 2001-580593/200165

XRPX Acc No: N01-432367

**Graphical user interface for computer controlled dairy farm system, has
computer based graphical and schematic representation of system,
associated with physical property of represented portion of system**

Patent Assignee: DELAVAL HOLDING AB (ALFA)

Inventor: RUDA F

Number of Countries: 095 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200117336	A1	20010315	WO 2000SE1674	A	20000831	200165 B
AU 200070472	A	20010410	AU 200070472	A	20000831	200165
SE 9903112	A	20010304	SE 993112	A	19990903	200165
EP 1207745	A1	20020529	EP 2000959089	A	20000831	200243
			WO 2000SE1674	A	20000831	

Priority Applications (No Type Date): SE 993112 A 19990903

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200117336 A1 E 20 A01J-005/007

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200070472 A A01J-005/007 Based on patent WO 200117336

SE 9903112 A A01J-005/007

EP 1207745 A1 E A01J-005/007 Based on patent WO 200117336

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): WO 200117336 A1

NOVELTY - Computer based graphical and schematic representation of dairy farm system has objects. Each object represents portion of system. Each object is associated with physical property which is one among the physical properties of portion of system represented by the object.

DETAILED DESCRIPTION - The physical property that is associated with object that represents portion of system is selected from group of physical properties such as spatial location, size, shape, color, direction, movement, amount, rate, frequency, distance from other objects of portion of system represented by object. The different portions of dairy farm system includes cow, fence, gate and various other apparatus. An INDEPENDENT CLAIM is also included for graphical user interface providing method for monitoring or controlling a computer controlled dairy farm.

USE - For enabling human user to monitor and control computer controlled **dairy farm** activity such as **automated** or semiautomated machine milking.

ADVANTAGE - Reliable operation of computer controlled dairy farm

3/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

014096379 **Image available**
WPI Acc No: 2001-580593/200165
XRPX Acc No: N01-432367

Graphical user interface for computer controlled dairy farm system, has computer based graphical and schematic representation of system, associated with physical property of represented portion of system

Patent Assignee: DELAVAL HOLDING AB (ALFA)

Inventor: RUDA F

Number of Countries: 095 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200117336	A1	20010315	WO 2000SE1674	A	20000831	200165 B
AU 200070472	A	20010410	AU 200070472	A	20000831	200165
SE 9903112	A	20010304	SE 993112	A	19990903	200165
EP 1207745	A1	20020529	EP 2000959089	A	20000831	200243
			WO 2000SE1674	A	20000831	

Priority Applications (No Type Date): SE 993112 A 19990903

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200117336 A1 E 20 A01J-005/007

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200070472 A A01J-005/007 Based on patent WO 200117336

SE 9903112 A A01J-005/007

EP 1207745 A1 E A01J-005/007 Based on patent WO 200117336

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): WO 200117336 A1

NOVELTY - Computer based graphical and schematic representation of dairy farm system has objects. Each object represents portion of system. Each object is associated with physical property which is one among the physical properties of portion of system represented by the object.

DETAILED DESCRIPTION - The physical property that is associated with object that represents portion of system is selected from group of physical properties such as spatial location, size, shape, color, direction, movement, amount, rate, frequency, distance from other objects of portion of system represented by object. The different portions of dairy farm system includes cow, fence, gate and various other apparatus. An INDEPENDENT CLAIM is also included for graphical user interface providing method for monitoring or controlling a computer controlled dairy farm.

USE - For enabling human user to **monitor** and **control** computer **controlled dairy farm** activity such as **automated** or semiautomated machine milking.

ADVANTAGE - Reliable operation of computer controlled dairy farm system is achieved by graphical and schematic representation of system using object representing portion of the systems.

DESCRIPTION OF DRAWING(S) - The figure shows the graphical user interface of computer controlled dairy farm system.

pp; 20 DwgNo 1/3

Title Terms: GRAPHICAL; USER; INTERFACE; COMPUTER; CONTROL; DAIRY; FARM;
SYSTEM; COMPUTER; BASED; GRAPHICAL; SCHEME; REPRESENT; SYSTEM; ASSOCIATE;
PHYSICAL; PROPERTIES; REPRESENT; PORTION; SYSTEM
Derwent Class: P13; T01; T06; X25

File 47:Gale Group Magazine DB(TM) 1959-2003/Aug 21
 (c) 2003 The Gale group
 File 122:Harvard Business Review 1971-2003/Sep
 (c) 2003 Harvard Business Review
 File 148:Gale Group Trade & Industry DB 1976-2003/Aug 29
 (c)2003 The Gale Group
 File 275:Gale Group Computer DB(TM) 1983-2003/Aug 29
 (c) 2003 The Gale Group
 File 444:New England Journal of Med. 1985-2003/Aug W5
 (c) 2003 Mass. Med. Soc.
 File 482:Newsweek 2000-2003/Aug 13
 (c) 2003 Newsweek, Inc.
 File 609:Bridge World Markets 2000-2001/Oct 01
 (c) 2001 Bridge
 File 610:Business Wire 1999-2003/Sep 02
 (c) 2003 Business Wire.
 File 619:Asia Intelligence Wire 1995-2003/Sep 01
 (c) 2003 Fin. Times Ltd
 File 622:EIU Magazines 2000-2003/Aug 29
 (c) 2003 EIU Magazines
 File 624:McGraw-Hill Publications 1985-2003/Sep 01
 (c) 2003 McGraw-Hill Co. Inc
 File 635:Business Dateline(R) 1985-2003/Aug 29
 (c) 2003 ProQuest Info&Learning
 File 646:Consumer Reports 1982-2003/Aug
 (c) 2003 Consumer Union
 File 647:CMP Computer Fulltext 1988-2003/Aug W2
 (c) 2003 CMP Media, LLC
 File 674:Computer News Fulltext 1989-2003/Aug W3
 (c) 2003 IDG Communications
 File 696:DIALOG Telecom. Newsletters 1995-2003/Aug 30
 (c) 2003 The Dialog Corp.
 File 748:Asia/Pac Bus. Jrnls 1994-2003/Sep 02
 (c) 2003 The Dialog Corporation
 File 810:Business Wire 1986-1999/Feb 28
 (c) 1999 Business Wire

?ds

Set	Items	Description
S1	12910	(DAIRY OR AGRICULTUR?)(1W)(FARM OR FARMS OR FARMING? OR FA- RMLAND? OR PHARM? ? OR PHARMING?)
S2	31	S1(5N)(AUTOMATE? OR COMPUTERI? OR DIGITI? OR DIGITAL? OR E- LECTRONIC)
S3	0	S2(5N)(MONITOR? OR CONTROL? OR DETERMIN? OR ASSESS? OR DIA- GNOS? OR ANALYZ? OR ANALYS? OR EVALUAT? OR MEASUR?)
S4	2	S2(5N)(GRAPHIC? ? OR GUI OR GRAPHICAL()USER()INTERFACE? ? - OR ICON OR ICONS OR DISPLAY? ? OR ANIMATION? OR IMAGE? OR GIF OR JPEG OR PICTURE? ? OR SYMBOL? ? OR SCHEMATIC? OR ROBOT?)
S5	0	S2(5N)(PHYSICAL()PROPERT? OR LOCATION? OR SIZE? ? OR SHAPE? ? OR COLOR? ? OR DIRECTION? OR MOVEMENT? OR FREQUENC?)
S6	25	RD S2 (unique items)
S7	1	RD S4 (unique items)
?		

6/3,K/1 (Item 1 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2003 The Gale group. All rts. reserv.

05404490 SUPPLIER NUMBER: 55207533 (USE FORMAT 7 OR 9 FOR FULL TEXT)
A nose for business. (Cyrano 2000)
Greenberg, Ilan
Technology Review (Cambridge, Mass.), 102, 4, 62(6)
July-August, 1999
ISSN: 1099-274X LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 2406 LINE COUNT: 00192

... the hunt for new applications has taken company officials as far
afield as a Pennsylvania **dairy farm**, where the **electronic** nose holds
promise for sensing which cows are in heat and ready for artificial
insemination...

6/3,K/2 (Item 2 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2003 The Gale group. All rts. reserv.

04257340 SUPPLIER NUMBER: 16933607 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Farmers plug in to the Information Highway. (includes related information)
Walter, John; Meade, Jim
Successful Farming, v93, n7, p17(5)
May 15, 1995
ISSN: 0039-4432 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2362 LINE COUNT: 00187

... Internet access, along with their offerings of news, weather,
encyclopedias, travel, stock-market quotes and **electronic** shopping mails.
Gateway to **agriculture**
Successful **Farming** is experimenting with its own online
presence--one that would be strictly for agriculture and...

6/3,K/3 (Item 3 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2003 The Gale group. All rts. reserv.

03576412 SUPPLIER NUMBER: 11195342
High tech dairy cows. (computerized dairy farm)
Borcherding, James R.
Successful Farming, v89, n8, p50(1)
August, 1991
CODEN: SUFAA ISSN: 0039-4432 LANGUAGE: ENGLISH RECORD TYPE:
CITATION

High tech dairy cows. (computerized dairy farm)

6/3,K/4 (Item 4 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2003 The Gale group. All rts. reserv.

03071538 SUPPLIER NUMBER: 06288293
**A farm of the future. (Soviet-American joint venture, a fully- automated
dairy farm)**
Denisov, Alexei
Soviet Life, n1, p33(1)
Jan, 1988
CODEN: SOLIA ISSN: 0038-5549 LANGUAGE: ENGLISH RECORD TYPE:
CITATION

A farm of the future. (Soviet-American joint venture, a fully- automated dairy farm)

6/3,K/5 (Item 5 from file: 47)

DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2003 The Gale group. All rts. reserv.

02581261 SUPPLIER NUMBER: 03414095 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Dilemma of the dislocated office worker. (facing up to reality)

Martin, Alexia

Office Administration and Automation, v45, p27(6)

Sept, 1984

ISSN: 0745-4325 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 2454 LINE COUNT: 00200

TEXT:

...on the work force. For example, as combines or cotton gins were applied to the **agricultural** sector, **farm** workers were dislocated. As the **automated** assembly line or industrial robots were applied to our factories, blue-collar workers were displaced...

6/3,K/6 (Item 1 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

11946229 SUPPLIER NUMBER: 61400699 (USE FORMAT 7 OR 9 FOR FULL TEXT)

China Continental Starts First Phase of Dairy Project in Pakistan.

PR Newswire, 9453

April 7, 2000

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 600 LINE COUNT: 00053

... related infrastructure such as airports and roads to enhance the distribution of the products. The **dairy farm** will run by a fully **automated** production process, which ensures that dairy products manufactured in the plant are of a consistent...

6/3,K/7 (Item 2 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

09827757 SUPPLIER NUMBER: 16962267 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Ice cream express. (Mayfield Dairy Farms Inc. instals builds new automated warehouse and installs new stick novelty line) (includes sidebars)

Mans, Jack

Dairy Foods, v96, n5, p44(4)

May, 1995

ISSN: 0888-0050 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1507 LINE COUNT: 00119

Ice cream express. (Mayfield Dairy Farms Inc. instals builds new automated warehouse and installs new stick novelty line) (includes sidebars)

ABSTRACT: Mayfield Dairy Farms Inc. began operating a new **automated** 2,500-pallet frozen products warehouse in Dec. 1994 and a new, complete stick novelty...

6/3,K/8 (Item 3 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2003 The Gale Group. All rts. reserv.

08415134 SUPPLIER NUMBER: 17792383 (USE FORMAT 7 OR 9 FOR FULL TEXT)
An econometric decomposition of dairy output growth.
Ahmad, Munir; Bravo-Ureta, Boris E.
American Journal of Agricultural Economics, v77, n4, p914(8)
Nov, 1995
ISSN: 0002-9092 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 3914 LINE COUNT: 00362

... effect.

Data and Variable Definitions

The data for this study come from ninety-six Vermont **dairy farms** participating in the **Electronic** Farm Record Keeping System (ELFAC) from 1971 to 1984. The number of observations available per...

6/3,K/9 (Item 4 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

05901884 SUPPLIER NUMBER: 12277606 (USE FORMAT 7 OR 9 FOR FULL TEXT)
From idea to store shelf in 90 days. (packaging of Jones Dairy Farm sausages) (Brief Article)
Packaging (Boston, Mass.), v37, n7, p16(1)
June, 1992
DOCUMENT TYPE: Brief Article ISSN: 0746-3820 LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 160 LINE COUNT: 00011

TEXT:

With the help of **electronic** design technology, Jones **Dairy Farm** was able to move the packaging for a new product from concept to test-market...

6/3,K/10 (Item 1 from file: 619)
DIALOG(R)File 619:Asia Intelligence Wire
(c) 2003 Fin. Times Ltd. All rts. reserv.

09175926 WNZH24711837 (USE FORMAT 7 FOR FULLTEXT)
HOW TO MAKE SCIENCE MEAN BUSINESS
SIMON COLLINS
New Zealand Herald
Sunday, September 1, 2002
JOURNAL CODE: WNZH LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 1710

...work on cow time," says Robert Wieliczko, who monitors the 28 cows in a model **automated dairy farm** near Hamilton run by Dexcel, formerly the Dairying Research Corporation.As the cow enters the...

6/3,K/11 (Item 2 from file: 619)
DIALOG(R)File 619:Asia Intelligence Wire
(c) 2003 Fin. Times Ltd. All rts. reserv.

08242427 HNDU20719424 (USE FORMAT 7 FOR FULLTEXT)
SCOPE FOR INCREASING TRADE WITH ISRAEL
Preeti Mishra
The Hindu
Monday, January 14, 2002
JOURNAL CODE: HNDU LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 809

...agriculture technology such as drip irrigation, arid climate cultivation, solar sterilisation techniques for soils and **computerised dairy farms** developed by the country. Initial negotiations with governments of the Southern states and Maharashtra have...

6/3,K/12 (Item 3 from file: 619)

DIALOG(R)File 619:Asia Intelligence Wire
(c) 2003 Fin. Times Ltd. All rts. reserv.

07973518 SCMP19290394 (USE FORMAT 7 FOR FULLTEXT)

TIES HAVE SOURED, SAYS ISRAEL ENVOY

STAFF REPORTER IN BEIJING

South China Morning Post

Saturday, October 13, 2001

JOURNAL CODE: SCMP LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 264

The 620 dairy cattle at the demonstration **dairy farm** have been hooked up to **computerised** stations developed by the Israelis that will provide advanced milking, feeding, herding management and veterinary...

6/3,K/13 (Item 4 from file: 619)

DIALOG(R)File 619:Asia Intelligence Wire
(c) 2003 Fin. Times Ltd. All rts. reserv.

07656414 SCMP17048441 (USE FORMAT 7 FOR FULLTEXT)

BUSINESS BRIEFS

South China Morning Post

Tuesday, June 5, 2001

JOURNAL CODE: SCMP LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 241

...10

Cogentrix Energy

7

Compaq

10

C&W Optus

5

Cyber Express

9

CyberWorks

1

Dairy Farm Int

2

Digital Asset

10

EBECA Cosmetics

4

EdF

7

EDS

10

Enron

7

Era Info & Enter

3...

6/3,K/14 (Item 5 from file: 619)
DIALOG(R)File 619:Asia Intelligence Wire
(c) 2003 Fin. Times Ltd. All rts. reserv.

06908447 HKST10961808 (USE FORMAT 7 FOR FULLTEXT)
TWO 7-ELEVENS ARE GOING 'CYBERACTIVE'
TERESA LEE
Hong Kong Standard
Thursday, May 11, 2000
JOURNAL CODE: HKST LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 261

...Cash and electronic currency will be accepted once the system becomes fully operational.

CATs provides **electronic** transaction through a broadband network. **Dairy Farm** says it is easy to use and comes with a high-resolution LCD display and...

6/3,K/15 (Item 6 from file: 619)
DIALOG(R)File 619:Asia Intelligence Wire
(c) 2003 Fin. Times Ltd. All rts. reserv.

06806856 EURE10071181 (USE FORMAT 7 FOR FULLTEXT)
COMMISSION CLEARS MADEIRA TAX BREAKS AS INVESTMENT AID
European Report
Wednesday, March 15, 2000
JOURNAL CODE: EURE LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 335

TEXT:

...to firms that take part in specific investment projects in certain sectors of activity: manufacturing, **agriculture**, fish **farming** and animal husbandry, tourism and **computerised** business services.

The scheme will apply in particular to investment projects costing at least Euro...

6/3,K/16 (Item 7 from file: 619)
DIALOG(R)File 619:Asia Intelligence Wire
(c) 2003 Fin. Times Ltd. All rts. reserv.

06719484 IMI9374335 (USE FORMAT 7 FOR FULLTEXT)
ISRAEL: AGRITECH '99: END-OF-SHOW REPORT
International Market Insight Reports

Tuesday, February 1, 2000

JOURNAL CODE: IMI LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 516

...first-hand look at Israel's agricultural industry and R&D. One trip included a **computerized dairy farm**, where each cow had a data file registering the time and amount of feeding, milking...

6/3,K/17 (Item 8 from file: 619)

DIALOG(R)File 619:Asia Intelligence Wire
(c) 2003 Fin. Times Ltd. All rts. reserv.

06486013 JHLCCABRAIW (USE FORMAT 7 FOR FULLTEXT)

BUSINESS NOTES: RETAILING: READYING FOR THE REVOLUTION
BUSINESS INDIA

Monday, May 31, 1999

JOURNAL CODE: BSIN LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 757

PRODUCT NAMES: **Electronic Computers** (SC=3571); **Dairy Farms** (SC=0241)

6/3,K/18 (Item 1 from file: 624)

DIALOG(R)File 624:McGraw-Hill Publications
(c) 2003 McGraw-Hill Co. Inc. All rts. reserv.

0628283

AGRICULTURE: FULL GRANARIES DON'T MEAN FULL POCKETS: Perfect weather and high-tech methods mean abundant harvests--and lower prices

Business Week January 9, 1995; Pg 82; Number 3406

Journal Code: BW ISSN: 0007-7135

Section Heading: Natural Resources

Word Count: 691 *Full text available in Formats 5, 7 and 9*

BYLINE:

Greg Burns in Chicago

TEXT:

...such as "SwineTRAK," which determines the ideal genetic match of sow and boar. And on **dairy farms**, thoroughly modern Bossies will don **electronic** ID tags that ration their feed and record milk output. The high-tech gear will...

6/3,K/19 (Item 1 from file: 635)

DIALOG(R)File 635:Business Dateline(R)
(c) 2003 ProQuest Info&Learning. All rts. reserv.

0993190 99-56040

Dewey given top post for Verio in New York

Dickinson, Mike

Rochester Business Journal (Rochester, NY, US), V14 N25 p4

PUBL DATE: 981002

WORD COUNT: 405

DATELINE: Rochester, NY, US, Middle Atlantic

TEXT:

...then a farmer, and Rick Klenotiz founded ServiceTech in 1988 after they worked together to **computerize** the records on the **dairy farm** Hiltz managed in Livingston County.

Verio New York is a full-service ISP offering dedicated...

6/3,K/20 (Item 2 from file: 635)
DIALOG(R)File 635:Business Dateline(R)
(c) 2003 ProQuest Info&Learning. All rts. reserv.

0909947 98-71259

National Internet firm purchases ServiceTech

Dickinson, Mike

Rochester Business Journal (Rochester, NY, US), V13 N47 p3

PUBL DATE: 980306

WORD COUNT: 802

DATELINE: Rochester, NY, US, Middle Atlantic

TEXT:

...Hilts, then a farmer, and Klenotiz founded ServiceTech in 1988 after they worked together to **computerize** the records on the **dairy farm** Hilts managed in Livingston County.

Verio New York is a full-service ISP offering dedicated...

6/3,K/21 (Item 3 from file: 635)
DIALOG(R)File 635:Business Dateline(R)
(c) 2003 ProQuest Info&Learning. All rts. reserv.

0805119 97-65297

Dairy farms struggle to stay alive

Kefalas, Francesca

Norwich Bulletin (Norwich, CT, US) pA1

PUBL DATE: 970407

WORD COUNT: 880

DATELINE: CT, US, New England

TEXT:

David Miller and his parents run a state-of-the-art **dairy farm** .

Everything is **computerized** . Every expense tallied. No one in the state can claim the Millers' Fairvue Farm in...

6/3,K/22 (Item 4 from file: 635)
DIALOG(R)File 635:Business Dateline(R)
(c) 2003 ProQuest Info&Learning. All rts. reserv.

0552030 95-07376

Making all the right moos: Know-how, udder drive to win aid dairy farmer

Magruder, Janie

Arizona Business Gazette (Phoenix, AZ, US), V114 N48 sSB p5

PUBL DATE: 941201

WORD COUNT: 1,164

DATELINE: Congress, AZ, US

TEXT:

...are not liquid."

When Parker Dairy Farms moved 2,700 milking cows to its new **automated dairy farm** in Congress, 26 of the company's 40 employees and their families went along. Each...

6/3,K/23 (Item 5 from file: 635)
DIALOG(R)File 635:Business Dateline(R)

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0383271 93-34333

Gov lights fight to keep us America's Dairyland

Oncken, John

Madison Capital Times (Madison, WI, US) sBUS p--

PUBL DATE: 930312

WORD COUNT: 865

DATELINE: Madison, WI, US

TEXT:

...are sprouting in California, Texas and New Mexico. They are there because of the big, **automated dairy farms** already there or being built in the same areas.

Why would such things happen? Simple...

6/3,K/24 (Item 1 from file: 748)

DIALOG(R)File 748:Asia/Pac Bus. Jrnls

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00308516 (USE FORMAT 7 FOR FULLTEXT)

AFTER THE DOTCOMS - The e-revolution lives - and this time, Asia's largest corporations are leading the charge By Cesar Bacani

Asiaweek

November 10 2000 DOCUMENT TYPE: Journal LANGUAGE: English

RECORD TYPE: Fulltext SECTION HEADING: THE ASIaweek 1000

WORD COUNT: 3,402

COMPANY NAMES (DIALOG GENERATED): Asiaweek ; Berjaya Group ; Cathay Pacific Airways ; Center for **Digital** Strategies ; Crimson Ventures ; **Dairy Farm** ; Globetronics Technology ; Goldman Sachs ; Hitachi Construction Machinery ; Hong Kong University ; Hutchison Whampoa ; JG Summit Holdings...

6/3,K/25 (Item 1 from file: 810)

DIALOG(R)File 810:Business Wire

(c) 1999 Business Wire . All rts. reserv.

0537498 BW1044

AMER BUSINESS COMPUTER: ABCC develops breakthrough animal husbandry dispensing system; dairy farm field testing set to begin in January

November 28, 1995

Byline: Business Editors, Computers/Electronics Writers

...said:

"American Business Computers has developed a highly accurate, user-friendly system which will further **automate** the milking process and increase **dairy farm** productivity. From our perspective, we have invested in research and development of a product which...

7/3,K/1 (Item 1 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2003 The Gale group. All rts. reserv.

02581261 SUPPLIER NUMBER: 03414095 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Dilemma of the dislocated office worker. (facing up to reality)

Martin, Alexia

Office Administration and Automation, v45, p27(6)

Sept, 1984

ISSN: 0745-4325

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 2454 LINE COUNT: 00200

TEXT:

...on the work force. For example, as combines or cotton gins were applied to the **agricultural** sector, **farm** workers were dislocated. As the **automated** assembly line or industrial **robots** were applied to our factories, blue-collar workers were displaced. Now people are asking whether...

?